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Waterproof walking devices

Aqualine – the product line for waterproof walking devices

Activities within wet areas present a special challenge to both amputees and non-amputees. Both adjust to this situation by behaving accordingly, e.g. by walking at an appropriate speed. An amputee will also depend on the prosthesis being designed to meet the special requirements in these areas (e.g. resistance to water, increased safety in the stance phase), so that the artificial leg can be reliably used.

Ottobock has optimised components of the modular system specifically for the challenges presented by wet areas, and matched them to each another. Aqualine encompasses a comprehensive range of products that include numerous waterproof prosthesis components such as knee joints, feet and various waterproof parts such as valves, shuttle locks and liners. This comprehensive system has been supplemented with the addition of a functional and visually appealing cosmetic solution – the Aqualine Cover.

The components can be combined into a modular bathing prosthesis system, or used to fabricate a bathing prosthesis with an exoskeletal design.

They are suitable for amputees up to a body weight of 150 kg.

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647G818

3WR95 Aqua-Knee

The Aqua-Knee is water-resistant.

It is small, light and equipped with a miniature hydraulic unit and a lock. Less active and unsure prosthesis users can activate the lock to achieve greater stability during the stance phase.

When used unlocked, dynamic flexion and extension resistances can be adjusted separately from one another for swing phase control appropriate to the particular needs of the amputee.

Flood holes to the right and left on the joint body make it possible for the knee joint to flood when setting foot in water and facilitate cleaning the joint.



Article number	3WR95
Material	Aluminium
Distal connection	Pyramid adapter
Proximal connection	Pyramid adapter
Knee flexion angle	135°
System height	62 mm
proximal system height to alignment reference point	6 mm
distal system height to alignment reference point	56 mm
Weight	~ 400 g
Max. body weight	150 kg

Single components as replacement parts

4G685 Knee forming cover

Article number	4G685
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501S101=M4x12 Screw to secure the knee forming cover

Article number	501S101=M4x12
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4X50 Adjustment wrench

Article number	4X50
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1WR95 Aqua-foot with modular adapter

The 1WR95 Aqua-Foot is water-resistant.

It is equipped with a grid-shaped sole tread and has excellent floor adhesion thanks to its particular material composition and moulding.

It has a natural shape with defined toes and an abducted big toe.

The proximal contact surface in the modular version described here is coated ex factory with sealing resin against water penetration and connected to a high-grade titanium foot adapter. Access to the adapter's screw on the sole of the foot is sealed with a plug.

Order example

Reference number = **Side** **Size** - **0** - **Connection** / **Colour**
1WR95 = L 26 - 0 - P / 4



≤ 150 kg

Reference number	1WR95				
Heel height	0 mm				
Sides	links (L), rechts (R)				
Size	24 cm	25 cm	26 cm	27 cm	28 cm
System height	61 mm	64 mm	67 mm	70 mm	72 mm
Weight	~507 g	~556 g	~629 g	~671 g	~704 g
Colour	beige (4)				
Max. body weight	150 kg				



647G634

1WR95 Aqua-foot without adapter for exoskeletal design

The 1WR95 Aqua-Foot without adapter is functionally and cosmetically identical to the foot version for the modular design. It is intended only to be used in waterproof walking aids in exoskeletal design.

Order example

Reference number = **Side** **Sizes** - **0** - **Connection** / **Colour**
1WR95 = L 26 - 0 - W / 4



≤ 150 kg

Reference number	1WR95				
Heel height	0 mm				
Sides	links (L), rechts (R)				
Size	24 cm	25 cm	26 cm	27 cm	28 cm
System height	72 mm	75 mm	78 mm	81 mm	83 mm
Weight	~437 g	~486 g	~559 g	~601 g	~634 g
Colour	beige (4)				
Max. body weight	150 kg				



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Accessories



2K34 Shaped ankle part

Without threaded bushing, for 1WR95 without adapter, to be used on the left or right side.

Article number	2K34=25	2K34=30
for foot sizes	24 – 25 cm	26 – 30 cm



2Z22=M10 Screw connection

For 1WR95 without adapter for screw connection between foot and ankle block.
(for all foot sizes)

Article number	2Z22=M10
Scope of delivery	1 threaded bushing 1 cap screw 1 washer



6R95 Aqualine cover

The Aqualine Cover is designed especially for use with the 3WR95 Aqua-Knee and the 1WR95 Aqua-Foot, as well as for contact with water.

Its contours are exceptionally aesthetic and it is extremely robust thanks to innovative fabrication processes and materials.

The cover is floodable. As a result, it does not become buoyant when setting foot in water. When leaving the water, any water in the prosthesis drains quickly and unobtrusively via an opening on the inside at ankle height.

The integrated locking mechanism allows the amputee to don and doff the cover as needed and also to clean it.

The Aqualine Cover is customised for each user by Ottobock and coated with skin-colour SuperSkin, creating a harmonious appearance and pleasant surface.

Article number	6R95
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- Further information about the Aqualine Cover and the ordering process is available from Ottobock Service Fabrication.
- Scratches/signs of use can be repaired with the 635Z56 SuperSkin Repair Set when needed

635Z56 Superskin repair set

The touch-up applicator with brush and mixing ball can be used to repair non-PUR products. The material is insensitive to dirt and also washable.

Article number	635Z56
Colour	Skin colour
Net contents	12 ml



Danger

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647G635

4WR95=1 Lamination anchor with pyramid receiver and angled arm

The 4WR95=1 Lamination Anchor is water-resistant.

It features a rotating pyramid receiver and an angled anchor arm, which is intended for posterior positioning. This allows easy positioning of the adapter in order to achieve optimized prosthesis alignment. The flexion position of the residual residual limb/socket is taken into account. No or only little manual bending is required.



≤ 150 kg

Article number	4WR95=1
Material	INOX stainless steel
System height	44 mm
Weight	165 g
Max. body weight	150 kg

- Only suitable for use in transfemoral prostheses.
- Use the 4X46 Lamination Dummy when laminating. It must be ordered separately (see accessories Page 142).



647G635

4WR95=2 Lamination anchor with pyramid adapter

The 4WR95=2 Lamination Anchor is water-resistant.

It has a rotatable pyramid adapter.



≤ 150 kg

Article number	4WR95=2
Material	INOX stainless steel
System height	2 mm
Weight	165 g
Max. body weight	150 kg

- Use the 4X46 Lamination Dummy when laminating. It must be ordered separately (see accessories Page 142).
- If there is not enough space between the 3WR95 Aqua-Knee and socket for the combination 2WR95 Tube Adapter and 4WR95=3 Tube Clamp Adapter, the 4WR95=1 Lamination Anchor with Pyramid Receiver must be used. In this case, the connection to the knee joint is formed directly by the lamination anchor. Gaps which may need to be bridged must be closed by filling the socket with foam.

2WR95 Tube adapter

The 2WR95 Tube Adapter is water-resistant

It has four grooves in the pyramid receiver section, which ensure that the tube is flooded when setting foot in water. The prosthesis is prevented from becoming buoyant as a result.



Article number	2WR95
Diameter	34 mm
Material	Titanium
Min. system height	77 mm
Max. system height	472 mm
Weight	330 g
Max. body weight	150 kg

- According to the Ottobock alignment recommendations, bench alignment of the waterproof walking device with the 1WR95 Aqua-Foot on 0 mm heel height is usually only possible with the aid of the angled tube adapter. Therefore use the 2WR95=1 Angled Tube Adapter. If needed, the 2WR95 Tube Adapter which is not angled may be used for TF amputees in the transfemoral area.



647G766

2WR95=1 Tube adapter, angled

The 2WR95=1 Tube Adapter is water-resistant.

It is the same as the 2WR95 Tube Adapter, but is inclined by 6° for alignment optimisation.



Article number	2WR95=1
Diameter	34 mm
Material	Titanium
Min. system height	78 mm
Max. system height	473 mm
Weight	330 g
Angle	6°
Max. body weight	150 kg

- According to the Ottobock alignment recommendations, bench alignment of the waterproof walking aid with the 1WR95 Aqua-Foot on 0 mm heel height is usually only possible with the aid of the angled tube adapter. Therefore use the 2WR95=1 Angled Tube Adapter. If needed, the 2WR95 Tube Adapter which is not angled may be used for TF amputees in the transfemoral area.



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647G632

4WR95=3 Tube clamp adapter

The tube clamp adapter is water-resistant.

It has four grooves in the pyramid receiver section, which ensure that the adapter is flooded when setting foot in water. The prosthesis is prevented from becoming buoyant as a result.



≤ 150 kg

Article number	4WR95=3
Diameter	34 mm
Material	Titanium
System height	33 mm
Weight	105 g
Max. body weight	150 kg

Single components as replacement parts

Article number	2WR95	2WR95=1	4WR95=1	4WR95=2	4WR95=3
4X28=3 Plastic ring					■
4Y423					■
4Y424					■
501T24=M5x25			■	■	■
506G3=M8X12-"NIRO"			▲		
506G3=M8X14-"NIRO"	▲	▲			▲
506G3=M8X16-"NIRO"	▲	▲	▲		▲
507U16=5.2-Niro Rounded washer			▲	▲	

▲ minimum order quantity required

■ can be ordered individually



647H483

6A30=20 Shuttle Lock

The lightweight 6A30=20 Plastic Shuttle Lock is water-resistant.

The integrated ratchet unit makes for easy unlocking even under tension. Locking is continuously variable so that "clicking noises" do not occur when walking. The Shuttle Lock has no weight limit and is embedded directly in the socket. It is used with liners having a distal connection (for the waterproof walking devices with Silicone liner 6Y43 Skeo Pure without textile cover)

Article number	6A30=20
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Accessories

6Y13=L1 Pin, long

Article number	6Y13=L1
Length	68.7 mm

6Y43 Skeo Pure

Thanks to its transparent silicone material, the Skeo Pure liner allows for a visual check of the fit and the skin's appearance, which offers a significant advantage e.g. for interim fittings.

Benefits

- Special outside coating makes the liner easy to don and doff, easy to clean and quick to dry
- Textured inner surface is gentle on the skin when donning and doffing and when bending the knee
- Integrated stabilizing matrix creates a more comfortable distal connection by minimizing pistoning (longitudinal stretching) without restricting radial stretching around the residual limb
- Because it dries very quickly, the liner is also ideal for use in waterproof prostheses
- Easy to cut or trim for better fit

Order example

Reference number = Size

6Y43 = 280

Reference number	6Y43
Size (distal circumference)	120 mm, 140 mm, 160 mm, 180 mm, 200 mm, 210 mm, 220 mm, 235 mm, 250 mm, 265 mm, 280 mm, 300 mm, 320 mm, 340 mm, 360 mm, 380 mm, 400 mm, 420 mm, 450 mm

- Can be used in combination with a waterproof prosthesis.



SIL

21Y14 PushValve

The 21Y14 PushValve is water-resistant.

Thanks to its threadless design, rotating or screwing movements are not required. Handling is thus made substantially easier for the user and a secure hold in the socket is produced as a result. An audible signal indicates that the valve is safely positioned.

Reference number	21Y14
Area of application	Transfemoral amputation



647H530



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 647G678



21Y21 ClickValve

(with safety leash in grey)

The ClickValve features a safety leash to avoid losing the upper valve part. Multi-option means:

- Complete use of the safety leash, OR
- Use of the upper grip section, OR
- No use of the safety leash

The significant height and outer diameter reduction as well as the unique design ensure good cosmetic processing in the socket.

Advantages for prosthetists and users:

- Conical shape for easy insertion in the lower valve part
- Safety leash avoids losing the upper valve part
- The "click" offers audible feedback for proper valve positioning
- Risk of haematoma is alleviated thanks to lateral air exhaust openings and a flush inside socket surface
- Straightforward and time-saving installation
- Good cosmetic aspect

Reference number	21Y21
Area of application	Transfemoral amputation

[illegible]