

Butler Tactical Parachute Systems, LLC

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The Non-Pyrotechnic **WATER ACTIVATED RISER RELEASE SYSTEM** **(WARRS)**



P/N 11026 — General Purpose Release—Single Attachment Points



**P/N 11025—General Purpose Release—Single Upper with Double Lower
(Standard Configuration — WARRS stays with Single Point)**



**P/N 11027 — General Purpose Release—Single with Double Lower
(USCG configuration—WARRS stays with Double Lower)**

Waterborne operators such as the United States Coast Guard, USN Special Boat Squadrons, Seal Teams, USMC Force Recon and various other special operations forces have long recognized the need for a reliable, **non-pyrotechnic parachute riser release** to prevent vital supplies from being dragged during airdrops into the water. In response to this need, Butler Tactical Parachute Systems (BTPS) has developed a completely mechanical, reusable device, that generates no hazards of any kind;

Water Activated Release Riser System (WARRS)

BTPS has combined the well-known and proven, 3-Ring Release with a reusable mechanical device designed by BTPS (patent pending) to ensure the parachute releases from the cargo within a few seconds after landing. This combination allows a wide variety of applications such as those shown on the cover of this brochure; BTPS can react quickly to requests for special applications.

Note that the water activated release device (P/N 11024) and the various riser sections together comprise the "system" and all parts may be handled, shipped and stored as an inert device.

The WARRS riser section with the 3-ring (and thus the release itself) typically remains with the cargo upon parachute release, allowing for recovery and re-use. All hardware used in the release device itself is corrosion resistant stainless steel or anodized aluminum and WARRS may be used in either salt or fresh water. The other hardware, such as the rings and snaps, are cadmium plated.

WARNING

***THIS DEVICE IS NOT MAN-RATED
and
MUST NOT BE USED AS SUCH***

on any personnel parachute system as part of the main or reserve parachute system unless the release system is suitably protected by the BTPS riser interlock device (also patent pending).



Water Activated Release (P/N 11024)

HOW IT WORKS

When assembled, the loop of the 3-Ring Release is held in place by the pin of the piston (Figure 1). Upon contact with the water, the Bobbin dissolves and allows the piston and pin to retract, which in turn releases the loop (Figure 2). With the loop released, the riser rings flip through each other, allowing the parachute to separate from the cargo (Figures 3 & 4).

After use, the release is simply rinsed, dried, and re-assembled with a fresh bobbin.



SPECIFICATIONS

Because of the construction of the 3-Ring Riser, the WARRS is typically limited to a 3,000 pound maximum parachute opening force. In instances requiring higher forces, the WARRS units may sometimes be rigged in parallel—contact BTPS for guidance when using the WARRS in instances likely to exceed 3,000 pound.

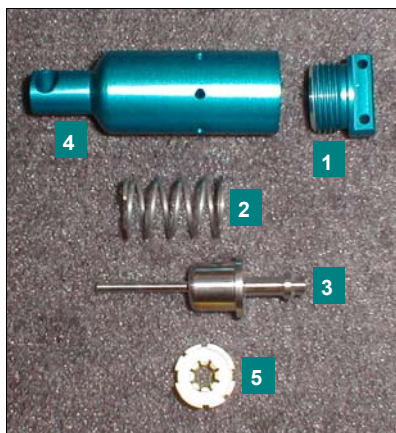
The length of time from initial water contact to release activation increases as the water temperature decreases. Tests conducted by BTPS personnel show approximately 3 seconds @ 70 degrees Fahrenheit (21 degrees Celsius), and 7 seconds at 32 degrees Fahrenheit (0 degrees Celsius).

The WARRS mechanism is suitable for other uses as well—contact BTPS if you have other needs for a water activated device.

ORDERING, PARTS AND PRICE LIST

The Water Activated Release Riser System may be ordered as complete systems or by individual components. A sample of the parts and combinations is shown below:

Water Activated Release Device: P/N 11024 (release device only)	\$ 225 each
P/N 11025: Complete Double-Leg System (Incl. P/N 11024)	\$ 325 set
<i>Replacements Parts for P/N 11025</i>	
Single Leg Section; 3-ring with Snap	\$ 100
• Double Leg Section with Base Ring and Two Snaps	\$ 75
P/N 11026: Complete Single-Leg System: (Incl. P/N 11024)	\$ 325 set
<i>Replacements Parts for P/N 11026</i>	
• Single Leg Section; 3-ring with Snap	\$ 100
• Single Leg Section with Base Ring and Snap	\$ 50
P/N 11027: Complete Double-Leg System (Incl. P/N 11024)	\$ 325 set
<i>Replacements Parts for P/N 11027</i>	
• Double Leg Section with 3-Ring	\$ 100
• Single Leg Section with Base Ring and Snap	\$ 50
Reload Kit Consisting of the following three items:	\$ 10 set
• Water Soluble Bobbin: P/N 11024-7	\$ 8 ea.
• 1" Rubber Reinforced Washer: P/N 90131A101	\$ 1 ea.
• 9/16" Rubber Reinforced Washer: P/N 90131A103	\$ 1 ea.



WATER ACTIVATED RELEASE COMPONENTS

Complete Assembly: P/N 11024

1. End Cap (P/N 11024-1)
2. Spring (P/N 11024-3)
3. Piston (P/N 11024-5)
4. Housing (P/N 11024-9)
5. Water Soluble Bobbin (P/N 11024-7)