



COMMONWEALTH of VIRGINIA

Department of General Services Division of Purchases and Supply

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March 22, 2022

To: Police Chiefs, Sheriffs, and Law Enforcement Authorities in the Commonwealth of Virginia

From: Department of General Services (DGS), Division of Purchases and Supply (DPS)

Subject: DPS Directive 2014-12-04 Tire Deflation Device Specs

- Purpose:** This directive establishes approved minimum standards and specifications for Tire Deflation Devices for the controlled deflation of motor vehicle tires to be used by Commonwealth law-enforcement officers, and is issued pursuant to the Division's authority established in Virginia Code §18.2-324 and §2.2-1112, as amended, which stipulates that the "The Division of Purchases and Supply shall, pursuant to §2.2-1112, set minimum standards for such devices".

To comply, DGS/DPS established a Standard Specification for equipment used for tire deflation of motor vehicles. The *Code of Virginia* §18.2-147.2, as amended, establishes that "It shall be unlawful for any person to manufacture, distribute, have in such person's possession or place upon any highway or private property jackrocks which are primarily designed for the purpose of disabling motor vehicles by puncturing of tires by anyone other than a law-enforcement officer."

The Standard Specification ("Attachment A") for "Tire Deflation Devices" dated Revision May 2017, was issued for the current State Contract Number E194-72709 (that can be found on the eVA web site under "State Contracts"). As may be needed, this Contract may be replaced or amended hereinafter by the Commonwealth, at anytime.

Stop Stick, Ltd.

Terminator S8056K, S8046K
Piranha S6001K
9' Rack Kits S3011K, S3012K, S3800K, S3801K
12' Rack Kits S3511K, S3612K, S3850K, S3851K
Training Kits
9' S9004K
12' S9204K
Mounting Tray
9' S2400

	12' S3400 Deployment Sleeve/Cover 9' S2100 Single Lane 12' S2500 Dual Lane Cord Reel S2200 Holster S2433 Storage Bag S3704
Phoenix International Ltd.	MagnumSpike! System 12' MS12 16' MS16 25' MS25 MagnumClaw! System MC – 2-unit Pack (a one-time use per unit)
Tidewater Tactical, Inc.	Spike Devil System & Spike Strip Standard Single Lane 10011 Extended Dual Lane 10022 Carrying Case 12002H Mounting Tray 11000 Deployment Sleeve/Cover, Carry Bag for Motorcycle Use 3002

2. **Specifications:** The Standard Specification attached hereto and incorporated herein as "Attachment A", entitled "Specifications for Tire Deflation Devices", and dated May 2017, applies to all Commonwealth of Virginia Law Enforcement Authorities for Tire Deflation Devices purchased on and after June 26, 2013, per §18.2-324, §2.2-1112, and §18.2-147.2 of the *Code of Virginia*, as amended. State Agencies and State Law Enforcement Authorities are required to use the DGS/DPS State Contract for the procurement of Tire Deflation Devices. Public Bodies and non-state Law Enforcement Authorities are not required to use the State Contract for the procurement of Tire Deflation Devices, but are still required to purchase Tire Deflation Devices that comply with this Standard Specification. Public Bodies and non-State Law Enforcement Authorities that have purchased any of the Tire Deflation Devices listed herein through the State Contract or by means other than the State Contract may use this letter as a reference source for compliance documentation. However, Public Bodies and non-state Law Enforcement Authorities, which have purchased other Tire Deflation Devices since June 26, 2013, not listed herein, must ascertain that such devices comply with the Standard Specification in effect at that time, and must provide their own documentation and certification.

Sincerely,

Kelly J. Langley

Kelly J. Langley, CPPO, CPPB, VCM, VCO
Deputy Director
Division of Purchases and Supply
Department of General Services
Phone: (804) 786-0323



Subscribed and sworn before me on this 22 Day of March, 20 22
My Commission expires: 5/31/2023 Letha C. Ferrell
(Date) (Notary Public)

ATTACHMENT A
SPECIFICATIONS FOR TIRE DEFLATION DEVICES (May 2017)

PURPOSE:

The purpose of this specification is to establish a purchase requirement for tire deflation devices for use by Virginia State Police, Law Enforcement Authorities, Agencies and other Public Bodies of the Commonwealth of Virginia for the deflation of vehicle tires pursuant to Sections 18.2-324, 2.2-1112 and 18.2-147.2 of the Code of Virginia, as amended.

SCOPE:

This specification covers deployable tire deflation devices designed to penetrate and deflate the tire(s) of a moving vehicle in a manner that shall avoid instantaneous failure of the penetrated tire(s) ensuring the safest possible means of impeding the mobility of the targeted vehicle.

BIDDER REQUIREMENTS:

The following specifications are intended to define the minimum level of quality and performance of the requested work and not to be restricted by manufacturer, brand, method of configuring a system, and method of accomplishing required functions, unless otherwise indicated. The word "shall" indicates a mandatory requirement. **Bidders shall annotate and return these specification pages to indicate compliance.** The right column across from a specification item shall be used to indicate compliance to the specification requirement. Bidder shall provide pertinent technical data documenting compliance/equivalence with all specifications requirements. The Commonwealth reserves the right to obtain technical data, to request clarifications and to set time limits for response, when deemed necessary. **Failure on the part of the Bidder to provide the aforementioned documentation will be cause to declare the bid non-responsive**

Bidder shall submit a diagram that clearly shows and thoroughly explains the operation of all essential components, sub-assemblies and/or accessories of the complete tire deflation unit. This information shall be submitted for each type of tire deflation unit quoted on the bid sheet. If any data is proprietary information, Bidder shall enclose such data in a separate envelope, and mark "Proprietary Data" on the envelope.

Products provided must be warranted to provide no-cost protection to the Commonwealth for correction or replacement as needed for defects in manufacturing, assembly, or parts. The Officer serviceable deflation device shall have a minimum warranty of 5 years from first use. Non-serviceable and anti-pursuit deflation devices shall have a minimum warranty of 5 years from the date of delivery to the ordering Agency or Public Body. Parts shall be available for at least 2 years following the discontinuance of the manufacturing of the deflation device. Warranty shipping charges both ways shall be at the expense of the Contractor. **Bidders shall submit data to establish that their products can comply with these requirements.** Provide documentation of warranty for the products offered in answer to this invitation for bid in the "WARRANTY" section following the end of the specifications.

Bidder shall provide delivery of deflation devices FOB destination to all Agencies ordering locations. Provide delivery time after receipt of order (ARO) in the "DELIVERY" section following the end of the specifications.

The equipment offered in answer to this request for bid must be a new and unused current production model of the device required. No prototype, demonstrator, or rebuilt product will be accepted, and offering of such a product will be cause for bid rejection. Any model offered shall have been successfully used by law enforcement agencies for at least six months prior to the bid opening date. All components shall be thoroughly tested for reliability and operation before delivery.

PERFORMANCE TESTING AND PRODUCT EVALUATION REQUIREMENTS:

The tire deflation device may be field and laboratory tested by the Commonwealth of Virginia and its Agents to determine its acceptable level of performance and conformity to specifications. Emphasis will be placed on the unit's ease of deployment and overall tire deflation effectiveness. The Commonwealth also reserves the right to have the deflation units examined by any other qualified State Agency for acceptable design, construction, fabrication and performance.

TIRE DEFLATION DEVICE SPECIFICATIONS:

A. GENERAL DEVICE DESCRIPTION:

1. The deflation units shall be of the following types and capable of the following lane coverage:
 - a. Single lane (minimum length of 9 - 11 ft.) (Non-Serviceable & Officer serviceable Models)
 - b. Dual lane (minimum length of 12 - 18 ft.) (Non-Serviceable & Officer serviceable Models)
 - c. Multi-lane (minimum length of 24 - 30 ft.) (Officer serviceable Models Only)
 - d. Anti-pursuit (Compact) (length of 3 - 6 inches)
 - e. Anti-pursuit (length of 20 - 24 inches)
2. No deflation unit shall exceed 3.25 inches in height when deployed.
3. The deflation unit shall be bi-directional.
4. Penetrating spikes shall allow for the controlled deflation of the tire(s) in a manner that shall avoid instantaneous (catastrophic) failure of the penetrated tire(s).
5. The deflation unit shall be capable of being deployed without the use of any protective gear.
6. The deflation unit shall not require an Officer to enter the traffic lane to deploy or retrieve the unit.
7. The deflation unit shall be lightweight, highly portable and easily removed and deployed from vehicles by one Officer without the necessity of tools.
8. The unit shall completely deflate the penetrated tire(s) within one minute. Test results shall be provided from the manufacturer that confirms this requirement.
9. The deflation unit shall be capable of deflating one or more tires on the target vehicle upon contact.
10. The deflation unit shall be designed to ensure maximum tire penetration.
11. The deflation unit shall be capable of immediate deployment upon receipt of the unit. The Officer shall not have to install the initial spikes.
12. The deflation unit shall be capable of being deployed against any tire diameter.

B. NON-SERVICEABLE MODELS:

1. Non-serviceable models may be interconnected to accomplish the required single or dual lane length.
2. Non-serviceable models shall bear the name of the ordering Agency on each tire deflation device.
3. Interconnected, non-serviceable models shall be provided with a nylon deployment sleeve or cover that shall allow for the rapid removal of the deployed unit from traffic.
4. Non-serviceable models shall be available in a high or low visibility color.

C. OFFICER SERVICEABLE DEVICE MODELS:

1. Officer serviceable models shall be pre-assembled and be of one-piece construction.
2. Officer serviceable models shall be of the following types: A) Fixed Spike System or B) Retractable Spike System.
3. Officer serviceable models shall work on any type road surface and in any weather condition.

4. Officer serviceable models shall be replaced, at no cost to the Agency, if breakage of the base occurs within the specified warranty period.
5. Single and/or dual lane Officer serviceable models shall be capable of upgrading to longer lane coverage models. This upgrade shall include a case for the new upgraded length.
6. Retractable spike system shall be capable of manual, electric or radio control operation. If the retractable spike system is being operated in electrical remote control mode, the unit shall be capable of operating from a portable power supply or the unfiltered power supply (12V power port) available in a standard automotive vehicle with 10.8 to 16.5 volts' negative ground. Current drain on the vehicle's electrical system should not exceed 2.0 amperes.

D. ANTI-PURSUIT DEVICE MODELS:

1. Section V. Items B. and C. of the Tire Deflation Device Specifications do not apply to this model.
2. The Anti-pursuit deflation device shall provide a means to penetrate and deflate the tire of a stationary target vehicle, if the target vehicle is moved.

E. DEFLATION UNIT ACCESSORIES:

1. The Officer serviceable units shall be furnished with the following (Except Anti-pursuit models):
 - a. Fixed Spike System:
 1. Carrying Case
 2. Spike replacement tool, if necessary
 3. Replacement cartridges or spikes with rubber inserts and caps
 4. Deployment rope/cord/cable (Minimum length 35 ft.)
 - b. Retractable Spike System:
 1. Carrying Case
 2. Spike replacement tool, if necessary
 3. Replacement cartridges or spikes with rubber inserts and caps
 4. Deployment rope/cord/cable (Minimum length 35 ft.)
2. The non-serviceable unit shall be furnished with the following (Except Anti-pursuit models):
 - a. Mounting tray for trunk mounting (Interconnecting Models)
 - b. Nylon deployment sleeve or cover
 - c. Nylon deployment rope (Minimum length 35 ft.)
3. The following items F thru H are accessories minimum requirements. These items shall also be available for optional individual purchase using the pricing provided in the "OPTIONAL PRICING" Section.

F. CARRYING CASE:

1. Contractor shall furnish one carrying case for each Officer serviceable unit:
 - a. The outer case shall bear the unit's model and serial number.
 - b. The case shall also bear the name of the ordering Agency.
 - c. The case shall be designed to keep dust and rain from entering the carrying case if unit is temporarily exposed to the weather.
 - d. The carrying case shall have a carrying handle or slot, and smooth, rounded corners, and no sharp edges for safety.
 - e. Deployment and maintenance instructions shall be affixed to the inside of the case and in non-obstructive view of the Officer when the case is opened.

G. MOUNTING TRAY:

1. Contractor furnish a lightweight, trunk mountable tray that be capable of containing the individual pieces of a non-serviceable, interconnecting deflation unit.
 - a. The individual pieces be capable of being removed from the mounting tray without the use of tools.
 - b. Mounting of the tray shall not require the drilling of holes in the trunk.

H: DEPLOYMENT SLEEVE/COVER:

1. Contractor shall furnish a non-rip, reusable, nylon or approved equal material sleeve/cover, for the rapid deployment/removal of the interconnected, non-serviceable unit.
 - a. The sleeve/cover shall allow for the quick connection of the nylon rope/cord

I: OPERATING INSTRUCTIONS AND OFFICER TRAINING:

1. The Contractor, with each unit shall furnish a complete set of operating instructions and a copy of all warranties.
 - a. When requested by the ordering Agency, the Contractor shall furnish CD or DVD media to the ordering agency that demonstrates the proper use of the deflation device, at no additional charge.
2. At the Agency's request, the Contractor shall provide a familiarization-training course at the ordering Agency's location.
 - a. The Contractor shall use audio-visual and other appropriate aids for Officer training in the proper operation of the unit.
 - b. The Contractor and the ordering Agency shall mutually agree upon the time and place of this training.
 - c. The familiarization-training course shall be at no additional expense to the agency.