

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF PURCHASES AND SUPPLY
SPECIFICATIONS FOR TIRE DEFLATION DEVICES**

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, 33.1-345 and 2.1-446 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, or 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.

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. All accessories shall also be available for separate purchase.

F: CARRYING CASE:

- 1. Contractor shall furnish one carrying case for each Officer serviceable unit when requested by the ordering Agency or Public Body:
 - 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 light weight, 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. A complete set of operating instructions and a copy of all warranties shall be furnished by the Contractor with each unit.
 - 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 deflation device(s) purchased.
 - b. The time and place of this training shall be mutually agreed upon by the Contractor and the ordering Agency.
 - c. The familiarization training course shall be at no additional expense to the agency.

WARRANTY SECTION:

Provide description of warranty coverage provided for the products bid:

DELIVERY SECTION

Non-serviceable device delivery to VA State Police or Ordering Agency at _____ Days ARO

Officer serviceable device delivery to VA State Police or Ordering Agency at _____ Days ARO

Anti-Pursuit device delivery to VA State Police or Ordering Agency at _____ Days ARO

PRICING SECTION

Non-serviceable device price per specifications, including delivery FOB destination \$ _____

Officer serviceable device price per specifications, including delivery FOB destination... \$ _____

Anti-Pursuit device price per specifications, including delivery FOB destination \$ _____