



City of Pigeon Forge Fire Department

Tony L. Watson, Chief



Notice of Bid

The City of Pigeon Forge is requesting bids from qualified vendors on a **Rescue Strut System** for the City of Pigeon Forge Fire Department. Bid specifications are enclosed or may be obtained at the Pigeon Forge Fire Department Monday through Friday between the hours of 8:00 am to 4:30 pm. Proposals not meeting the requirements will be rejected.

The City of Pigeon Forge reserves the right to reject any or all bids or to accept the deemed most favorable to the city. We also reserve the right to accept any portion or all of a bid.

Bids must be good through June 30th, 2019.

Bidder agrees by placing bid that no bills will be submitted to the Pigeon Forge Fire Department until all items on order are received and accepted by the Pigeon Forge Fire Department as correct.

Bids will be received by the City of Pigeon Forge until 1:30 pm (Eastern Time) August 17th, 2018 at which time they will be opened and read aloud at Pigeon Forge Fire Department.

Bid specs can be found online at www.cityofpigeonforge.com

Any question on any item listed, please call Pigeon Forge Fire Department at (865) 429-7381.

All bids must be dated, signed and words "**Rescue Strut System**" shall be prominently displayed on the outside of the envelope.

Address all bids to:
Pigeon Forge Fire Department
Attn: Tony L. Watson
P.O. Box 1350
Pigeon Forge, TN 37868-1350



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LEGAL RIGHT TO SPECIFY

The Pigeon Forge Fire Department (for the remainder of this section referred to as the “specifier”) chooses to exercise its legal right to specify as determined by the U.S. Supreme Court’s affirmation of the decision handed down in the case of Whiten Corp. vs. Paddock, by the U.S. District Court of Massachusetts, the First Federal District Court, which in effect states:

- 1) That as trained professionals; specifiers make informed judgments on products that they feel best serve their needs. Also, that proprietary specifications (if chosen) **DO NOT** violate any antitrust laws. technically, very few brands of material or equipment are exactly alike, and if the specifier wants to limit the specifications to one source, he has the right to do so and enforce it.
- 2) Only the specifier has the responsibility and judgment for determining whether a proposed Substitution an “or equal”.
- 3) That from start to finish in the purchasing process, only the specifier can ultimately decide if another desirable product is available in lieu of the specification.
- 4) Finally, that the courts conclude “the burden is on the supplier or manufacturer, who has **NOT** been specified, to convince the specifier that their product is equal for the purpose of a particular project”.

The specifier has determined that this product specification shall represent the product to which all offerings shall be compared. Due to the fact that fire firefighting is an **ULTRAHAZARDOUS, UNAVOIDABLY DANGEROUS** activity, only trained Fire Department personnel with specific knowledge in the area shall be allowed to make the final determining decision on the selection of the appropriate product to serve the Pigeon Forge Fire Department’s needs.



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1.0) Introduction

- These specifications cover the minimum requirements for a rescue strut system to be purchased by the City of Pigeon Forge Fire Department. This specified system shall consist of the following individually sized Rescue Struts, components and accessories. This equipment is to be used by emergency personnel for excavation collapse, stabilizing crashed vehicles and reinforcing structures weakened by fire or earthquake. All equipment submitted shall be manufactured by an ISO 9001:2000 certified company.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

2.0) General Construction Features

- The Rescue Strut system shall be available in five sizes of extendable struts.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- They shall be constructed from 3in. (7.6 em.) diameter extruded seamless aluminum alloy tube with a solid moveable threaded shaft. Seamless tube is required to ensure a monolithic structure with predictable strength throughout and to provide superior strength, formability and finishing best suited for pressure applications found in emergency shoring operations.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- All Rescue Struts and controls shall be hard coat anodized for protection and longevity.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- They shall extend manually or be activated by Air, Carbon Dioxide, or Nitrogen.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**



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- The Rescue Struts shall be tested and capable of supporting the following loads at the corresponding lengths and safety factors below: All Rescue Struts shall be labeled with a 4-1 safety load chart.

Rescue Struts Load Table			
<i>Note: Working loads shown in lbs. (kg.)</i>			
Load Chart at Following Safety Factors			
ft. (m)	2:1	3:1	4:1
2 (0.6)	43,500 (19,731.6)	29,000 (13,154.4)	21,750 (9,865.8)
4 (1.2)	35,880 (16,275.2)	23,920 (10,850.1)	17,940 (8,137.6)
6 (1.8)	28,250 (12,814.2)	18,830 (8,541.3)	14,125 (6,407.1)
8 (2.4)	24,050 (10,909.1)	16,030 (7,271.2)	12,025 (5,454.5)
10 (3.0)	10,725 (4,864.9)	7,150 (3,243.2)	5,360 (2,431.3)

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- Threaded Rescue Strut shall allow soft placement at collapse incidents and be safely secured under the area to be supported with a minimum of shock to the load.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The Rescue strut locking system shall automatically default to the locked position in case the unexpected occurs during setup or teardown and shall operate without the need for any external pins, chains or clips.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The locking collar shall accommodate a standard spanner wrench for minor adjustments and not require specific locking positions.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**



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- The threaded Rescue Struts shall be available in and labeled with the following approximate lengths:

Quantity	Length in. (em.)
1	56.0 – 87.0 (142.2 – 221.0)
1	37.0 - 58.5 (94.0 – 148.6)
1	25.0 – 36.0 (63.5 – 91.4)
1	19.0 – 24.5 (48.3 – 62.2)
1	12.0 – 15.0 (30.5 – 38.1)

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

3.0) Base Plates

- Base Plates shall be designed as the Rescue Struts' contact point.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- Base plates shall be available in the following configurations and be constructed of hard coat anodized aluminum.

Designation	Dimensions in. (em)
Standard Base	3" (7.6)
Rubber Base	4" (10.2)
Square Rigid Base	6" (15.2)
Square Swivel Base	6" (15.2)
Square Hinged Base	6" (15.2)
Square Rigid Ground Plate	12" (30.5)
Square Swivel Ground Plate	12" (30.5)
Square Hinged Ground Plate	12" (30.5)
Channel Base	4" x 4" (10.2 x 10.2)
Channel Base	6" x 6" (15.2 x 15.2)
Angle Base	
Cone Base	
V Base	

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**



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4.0) Controls & Accessories

- The Pressure Regulator shall be of a self-contained, direct-acting, piston style pressure-reducing design. It shall be used primarily with SCBA air cylinders but also accommodate working air cylinders as needed.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- Inlet pressures up to 6,000-psi shall be adjustable to working pressures up to 250- psi.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The pressure regulator shall include a built-in shutoff and a safety relief valve to prevent over pressurization of the system.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The pressure regulator shall have a quick connect output coupling with locking safety ring for preventing misuse with lower pressure lift bag operations.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The Controller shall be of the "Dual Deadman" type, which is a single input/dual output Controller with closed quick disconnects with locking safety rings for hose fittings and dual push-button controls to prevent accidental operation if left unattended.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- Two gauges shall be used to individually monitor pressure to either of the two outlets.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**



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- A pressure relief valve shall be used on each outlet to prevent over pressurization.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The controller shall be able to be operated with one hand and carried with a shoulder strap allowing for upright or confined space operations.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The controller shall have a male nipple inlet and quick disconnect coupling with safety lock ring for each outlet to prevent misuse with lower pressure lift bag operations.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The Air Supply Hose shall be 3/8 in. (0.95 em) inside diameter and be available in three different lengths, a variety of colors and be equipped with quick disconnect hose fittings with locking safety rings.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- All hoses shall have closed fittings for safety when disconnecting a pressurized hose during operations and feature a backup locking ring to ensure the integrity of the connection.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The hose will be designed for a working pressure of 300-psi and a temperature of -40° F to 150° F (-22.22° C to 65.56° C).

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**



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5.0) Strut Extensions

- Strut Extensions shall be available in four different lengths: 6 in. (15.2 em), 12 in. (30.5 em.), 24 in. (60.9 em) and 36 in. (91.4 em) and be constructed from 3in. (7.6 em) diameter extruded seamless aluminum alloy tube hard coated and anodized for protection and longevity.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- Seamless tube is required to ensure a monolithic structure with predictable strength throughout and providing superior strength, formability and finishing better suited for pressure applications found in emergency shoring operations.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- Each strut extension shall be designed and used only on the non-adjustable end of the rescue strut ensuring maximum and full strength of the column during operations.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- All extensions shall provide for a minimum overlap with the rescue strut of 4 in. (10.16 em) for maximum columnar strength during use.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- Anything less will be deemed unsafe for emergency operations and preclude the use of extensions.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**



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6.0) Warranty

- The seller shall be required to furnish a warranty on the complete Rescue Strut System as described in these specifications for the service intended of the buyer.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- All equipment furnished by the successful bidder shall be warranted against all defects in material and workmanship for a period of at least five years from date of acceptance.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- The seller agrees to replace, without charge, any parts shown to be defective under the terms of this warranty.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

7.0) Use, Care and Maintenance Manual

- Seller shall provide an illustrated step-by-step guide on the use, care and maintenance of the Rescue Strut System provided.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**

- Seller shall provide a minimum of two days training on the Rescue Strut System provided.

Does Your Bid Comply With All Aspects of This Section. **Yes** **No**



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8.0) SHIPPING and DELIVERY

- The bid pricing shall include all shipping and handling charges.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The bid shall allow for 100% delivery before items are paid for.

Does Your Bid Comply With All Aspects of This Section. Yes No

- The bid shall guarantee pricing until June 30th , 2019

Does Your Bid Comply With All Aspects of This Section. Yes No



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COMPARATIVE BID ANALYSIS

City of Pigeon Forge Fire
Department

Vendor:

Description of items	Quantity	Unit Price	Total price
Freight			
GRAND TOTAL:			



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Percentage Specifications Compliance Calculation

	Total Number of "Yes / No" Questions		
	Total Number of Yes Answers		
	Total Number of No Answers		
$\% \text{ Specification Compliance } [(Total \text{ Yes Answers}) / (Total \text{ Answers})] \times 100\%$			%
Each " No " answer requires a full written explanation. Each " Yes/No " questions not checked where provided will be considered a " No " answer.			



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BID SHEET

Company Name: _____

Address: _____

Contact: _____ **Phone:** _____

Bid Packet Checklist:

____ Specifications

____ Proposal

____ Comparative Bid Analysis

BID OPENING

August 17th 2018
At 1330