# Electro-Hydraulic Rescue Ram

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| 1. The rescue ram shall be a double-acting hydraulic cylinder. Extension and retraction is carried out hydraulically.<br><br>2. The rescue ram shall be a multi-stage cylinder for applying pressure with varying pressure forces depending on the piston stage. The pressure force shall remain constant within one piston stage.<br><br>3. The ram shall extend to a distance of up to 52 inches. The retracted length shall be no less than 18 inches.<br><br>4. The ram shall feature a two stage stroke. The maximum stroke for piston 1 shall be 15 to 16 inches producing up to 28,000 foot lbs force. The maximum stroke for piston 2 shall be 14 to 15 inches producing up to 13,000 foot lbs force. The piston stroke overall shall be 29 to 32 inches.<br><br>5. The tool shall include heat-treated, cast steel ram claw feet on the piston side and on the cylinder side for durable gripping and minimizing slippage.<br><br>6. The tool shall have a dual pilot check valve to prevent accidental movement of the piston rod in the event of power loss.<br><br>7. The control mechanism shall feature a control for ease of operation by allowing 360 degree operation in any position. The mechanism shall be separate and independent from the handle to provide added control in close-quarter operation.<br><br>8. The tool shall provide a “dead man” actuator whereby the unit stops functioning when hand pressure is released.<br><br>9. The extend piston and retract piston shall be clearly marked.<br><br>10. The tool shall be NFPA 1936; 2015 Edition certified and shall be labeled as such bearing the mark of the testing agency.<br><br>11. The tool shall not weigh more than 45 lbs excluding the power supply.<br><br>12. Electro-hydraulic devices shall not need to be connected to an external hydraulic source, generation of the required hydraulic pressure takes | |

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| place within the body of the device by either a quick exchange battery or an external power supply. ( see spec on external power supply)<br><br>13. The electro-hydraulic tool shall be equipped with lights to facilitate work under poor lighting conditions. **T**he lights must be powered by the same battery that powers the electro-hydraulic tool and not a secondary battery.<br><br>14. The cylinder of the tool shall be made of anti-corrosive light aluminum alloy for its lightweight, strength and long life. The body of the tool shall have a high impact, non-metallic housing. The housing shall have ventilation holes on both sides of the unit for cooling the motor.<br><br>15. The tool shall be able to tolerate an ambient temperature range of -5°F up to +130°F.<br><br>16. The tool shall be protected by a pressure relief valve that prevents it from being over pressurized. | |