

RESCUE RAM

1. The rescue ram is a double-acting hydraulic cylinder. Extension and retraction is carried out hydraulically.
2. The rescue ram is a multi-stage cylinder for applying pressure with varying pressure forces depending on the piston stage. The pressure force remains constant within one piston stage.
3. The ram shall extend to a distance of up to 53 in (1347 mm). The retracted length is to be no less than 23.5 in.(313 mm).
4. The ram shall feature a two stage stroke. The maximum stroke for piston 1 shall be 15.2 in (387 mm) producing up to 28,600 lbf (127 kN) force. The maximum stroke for piston 2 shall be 14.3 in (363 mm) producing up to 13,500 lbf (60 kN) force. The piston stroke overall shall be 29.5 in (750 mm).
5. The tool shall include heat-treated, investment-cast steel ram claw feet on the piston side and on the cylinder side for durable gripping and minimizing slippage.
6. The tool shall have a dual pilot check valve to prevent accidental movement of the piston rod in the event of power loss.
7. The control mechanism shall feature a star-grip control for ease of operation by allowing 360° operation in any position. The mechanism shall be separate and independent from the handle to provide added control in close-quarter operation.
8. The tool must provide a “dead man” actuator whereby the unit stops functioning when hand pressure is released.
9. The extend piston and retract piston are clearly marked.
10. The tool must be NFPA 1936; 2015 Edition certified and shall be labelled as such bearing the mark of the testing agency.
11. The tool will not weigh more than 41.9 lbs (19 kg) excluding the power supply.
12. Electro-hydraulic devices do not need to be connected to an external hydraulic source, generation of the required hydraulic pressure takes place within the body of the device by either a quick exchange lithium/ion battery or an external power supply.
13. The electro-hydraulic tool is equipped with lights to facilitate work under poor lighting conditions.
14. The cylinder of the tool shall be made of anti-corrosive light aluminium 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.
15. The tool shall be able to tolerate an ambient temperature range of -4°F (-20°C) up to +131°F (+55°C).