

# ST54™

ENHANCED MULTI-MISSION  
TACTICAL OPERATOR SCBA



Self-Contained Breathing Apparatus

**AVON**  
PROTECTION

# ST54™

ENHANCED MULTI-MISSION  
TACTICAL OPERATOR SCBA



Avon's state-of-the-art ST54™ Tactical Operator SCBA's have been developed specifically for tactical officer and technician applications where the operator needs to respond to ever changing operational conditions.

Available as a NFPA 1986:2023 compliant variant, the ST54™ provides operational flexibility to operators and mission commanders in the field for a tailored PPE response based on available intelligence. Depending on the threat or operational situation at the scene of an incident, the ST54™ can be configured to provide the appropriate protection.

The ST54™ system provides the operator with total flexibility to select the necessary level of protection quickly and efficiently without degradation of operational effectiveness. Designed with the tactical mission in mind, the system incorporates non-reflective black components and warning whistle which can be silenced (voids approvals if silenced).



**ST54™**  
Standard / NIOSH Industrial



**ST54™**  
NIOSH CBRN / NFPA1986:2023 Compliant

## Cylinders

The ST54™ two-piece clamshell composite backframe accommodates a variety of 4500 psi carbon cylinders in durations of 30, 45 or 60 minutes. Both natural and stealth black cylinder finishes are available along with optional stealth cylinder bag covers. A quick release universal cylinder band and optional cylinder/1st stage reducer quick disconnect capability allows for fast and easy cylinder exchange. The ST54™ is available in 4500 psi and 5500 psi variants. 5500 psi cylinder can go up to 70 mins duration.

## End-of-Service-Time Indicators (EOSTI)

The ST54™ backframe includes a remotely accessible, chest mounted pressure gauge (available with stealth black and luminescent face options) for monitoring of cylinder pressure and an end-of-service whistle alarm that can be disabled (voids approval) if required.

## Compact Demand Valve (CDV)

The world's smallest, most compact chemically hardened demand valve provides constant positive pressure. With the option to mount on either side of the respirator, the CDV is unobtrusive and allows excellent integration with weapons and other tactical gear. The CDV is attached to the respirator via a standard 40mm thread connection.

## Additional Features

Multiple customization options are available for the ST54™ including Rapid Intervention Coupling (RIC), Remote Lightning Fill, Universal Emergency Breathing Safety System (UEBSS) and now also Remote Dual Transfill options.

# ST54™ RANGE OF SCBA

Avon Protection offer three variations of the ST54™, designed to meet the operator's requirements. These systems combine with Avon Protection respirators to provide new and innovative modular breathing apparatus technology to provide positive pressure SCBA and/or PAPR capability.

Boasting enhanced comfort, improved durability, optimized weapon sighting and conformity to the strict requirements of NFPA1986:2023 - the ST54™ is designed to keep you moving, operating for longer and working more efficiently.

	ST54 Standard	ST54 Industrial	ST54 NFPA Compliant
<b>Approvals</b>	<p>The ST54™ is available in non-certified/approved configurations for use by military and Tier One operators who require product configurations and capabilities that fall outside of current NIOSH and NFPA approval standard requirements. These configurations include (but are not limited to) SCBAs used as part of Combined Unit Respirator (CUR) Systems which incorporate the ST54™ with the AvonAir CS-PAPR.</p>	 <p>The ST54™ carries a NIOSH Industrial Approval as a stand-alone Tactical SCBA with a variety of cylinders and respirator size combinations under the provisions of 42 CFR 84 TC-13F.</p>	 <p><b>National Fire Protection Association (NFPA)</b></p> <p>As an SCBA (Positive Pressure System, the ST54 CBRN (with upgraded FM54) conforms to NFPA1986:2023 and is approved under NIOSH CBRN under the provisions of CFR84 TC-13F</p> <p>As an APR the upgraded FM54™ also carries a separate NIOSH CBRN approval as a stand-alone Negative pressure APR under the provisions of CFR42 TC-14G.</p>
<b>Masks</b>	 <div style="display: flex; justify-content: space-around; text-align: center;"> <div data-bbox="427 1348 624 1442"> <p><b>M53A1™</b> Shown with VPU fitted</p> </div> <div data-bbox="659 1348 855 1375"> <p><b>FM53™</b></p> </div> <div data-bbox="890 1348 1086 1469"> <p><b>FM54™</b> Shown with optional sunlight outsert fitted</p> </div> </div>		 <p><b>FM54™</b> Shown with redesigned exhalation valve cover providing improved exhalation resistance performance, and new clear visor outsert providing improved abrasion resistance</p>
<b>Cylinder connection</b>	CGA Thread or Quick Disconnect	CGA Thread or Quick Disconnect	CGA Thread or Quick Disconnect
<b>Back frame and harness</b>	Composite/Aluminium Combination Kevlar	Composite/Aluminium Combination Kevlar	Composite/Aluminium Combination Kevlar
<b>CDV</b>	Yes	Yes	New design meets stringent flow rate and breathing performance requirements of NFPA1986:2023
<b>Dual Trans Fill</b>	Yes	Yes	Available – Allows users to trans fill air between worn systems
<b>Cobra™ Quick drop buckles</b>	Yes	Yes	Yes
<b>Cylinder Pressure</b>	4500 psi and 5500 psi	4500 psi and 5500 psi	4500 psi



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