

Chemical Protective Suits with Dualsystem

Combines benefits from a compressed air line system and a breathing apparatus

MSA's gastight chemical protective suit range, Vautex Elite features a special Dualsystem version. This suit version combines the benefits of an applied compressed air line system with those of a self-contained breathing apparatus. The Dualsystem is capable of switching from a breathing apparatus to a compressed air line system and back again. It consists of an Automatic Switch Valve (ASV) and an air distributor inside the suit. This sophisticated system ensures mobility, extended service time, comfort and enhanced safety when the air line system fails.

For Challenging Application

Challenging applications, whether in fire fighting, civil defence or general industry, require a flexible system. The breathing apparatus inside the total encapsulating protective suit, gives the user mobility. Connected to a compressed air line system the user has extended service time and also benefits from an air ventilation system inside the suit.

MSA's Dualsystem is a combination of both systems, offering maximum flexibility, comfort and safety.

Features & Benefits

- Automatic switching from compressed air line system to breathing apparatus and back
- Higher flexibility and safety
- Simple handling
- Extended service time
- Air ventilation cools and removes humidity
- Easy cleaning due to separate Automatic Switch Valve
- State-of-the-art suit design for the harshest environments

Suit Versions

All Vautex Elite suits offer reliable protection against gases, vapours, solid and liquid chemicals, infective agents, as well as radioactive contamination. A Double glove system, replaceable boots and gloves, and an integrated transponder are standard features. For details on the material, design and all available options please see the leaflet "Vautex Elite ET"

Vautex Elite ET Dual: The suit with the latest design features a large integrated lens, a gastight zipper with cover, removable back padding and comfortable suspenders. Three different suit sizes are available. The MSA GALLET helmet fits as standard.

Vautex Elite S Dual: This basic model with is available in a universal size featuring a convenient zipper and a large replaceable lens making it ideal for frequent use.

Vautex Elite S GALLET Dual: Same suit as the Vautex Elite S Dual but incorporating a plastic plate for helmet positioning and a shorter zipper in the head section to accommodate the MSA GALLET helmet.

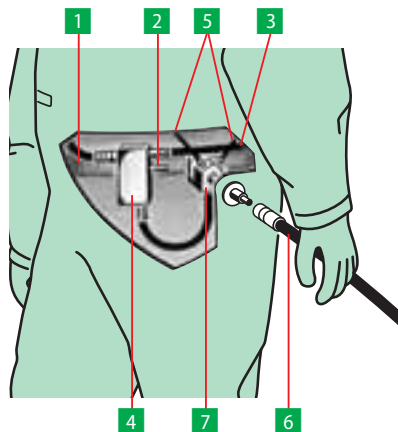
Ordering Information

10015300 Vautex Elite S Dual

10025882 Vautex Elite S GALLET Dual

Vautex Elite ET Dual can be configured per individual requirements (e.g. 3 suit, boot and inner glove sizes; 4 radio pocket sizes; optional suspenders and customizing marking). Please contact your MSA representative for the ordering details.

For accessories please see the leaflets Compressed Airline Breathing Apparatus and Vautex Elite ET.



1. Connection to lung governed demand valve
2. Warning signal
3. Connection to compressed air breathing apparatus
4. Automatic Switch Valve (ASV)
5. Suit ventilation system
6. External compressed air supply
7. Air distributor

Sophisticated Principle

The Automatic Switch Valve (ASV) attaches to the hip belt of the breathing apparatus. It is connected to the medium pressure lines of the breathing apparatus and the air ventilation couplings. From the ASV the air is supplied to the lung governed demand valve on the face mask.

The air distributor supplies the compressed air via a plug from the outside to the ASV on one hand and to the ventilation system inside the suit on the other. With air supplied from an air line system, cool air is fed into the suit.

If the pressure in the air line system drops below approx. 4.5 bar, the ASV automatically changes to the air supply delivered by the breathing apparatus. The air from the breathing apparatus is never used for ventilation, and until the pressure in the airline is >0 bar, the ventilation system remains in operation for the user.

When changing supply from the air line system to the breathing apparatus, an alarm sounds from a whistle device on the ASV. If the pressure in the air line system increases again (above approx. 6.0 bar), the air supply automatically switches back to the air line system.

Technical Data

Air output suit ventilation

80 l/min. at 7 bar

Switching pressures approx. 4.5 bar → to breathing apparatus
approx. 6.0 bar → back to air line system

Warranty 1 year

Approvals for Vautex Elite S suits:
PPE Directive 89/686 EEC (category 3);
prEN 943 – Part 1

for Vautex Elite ET suits:
PPE Directive 89/686 EEC (category 3);
EN 943 – Part 1; EN 943 – Part 2;
EN 14126; EN 1073-2; EN 533;
VFDB Directive 0801

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