



Operating Guidelines

Breathing Air Trailer



General Information

- Air Trailers comprises of a two axle two tonne
- capacity, auto braked trailer. Sn 2019526 NSAI approved
- The air storage system consists of a number of 300 bar 50 litre or 80 litre steel storage cylinders.
- The Pneumatics consists of a single point charging valve to fill all cylinders. Isolating valves for the top and bottom air banks.
- High pressure safety valves, low pressure safety valve. Two pressure regulators, two low pressure system gauges and one high pressure cylinder contents gauge are all housed in a waterproof steel box.
- There is a low pressure ex rated Diktron DS4 MK11 visual and audible alarm housed in its own steel box.
- At the rear of the trailer there is a lockable aluminium box that contains two stainless steel hose reels that can contain up to 90 metres of breathing air hose each. Also contained in the box are two breathing air filter units and two Scott Flights B/A sets

Operating Instructions

The Air Trailer should be operated by a person trained and instructed in its use.

A trained person should be in attendance at the control panel and within range of the Diktron audio visual alarm at all times when trailer is in use.

- To fill the Air Trailer connect up charging hose from the compressor to the charging valve.
- Open charging valve and ensure that all of the cylinder valves are open.
- Open both isolation valves in control box
- Start Air Compressor.
- Fill all cylinders to 300 bar.
- Shut off compressor.
- Close charging valve.
- Close isolation valves in control panel. Vent charging line by lifting the handle on the charging valve and hold up until all of the air is vented from the charging line.
- Remove charging hose.

Please note:

For safety reasons all cylinder valve should be closed during transportation.

In brief

- **Maximum cylinder pressure** - 300 bar working pressure 450 Bar test pressure.
- **Outlet (line) pressure** - 6 to 9.5 bar.
- **Cylinder warning whistle** set at 55 bar when there is 1 hours supply for 1 man on 1 cylinder.
- **Line pressure warning whistle** set at 6 bar +/- 5%.
- **Flow rate** 300 Lts/Min one man 120 Lts /Min for every operative after that.
- Six Full cylinders hold 90,000 litres which is enough for 1 man for 37.5 hours approx.

Always:

- Turn on at least 1 cylinder from each row of cylinders.
- The control panel is type approved to BS EN 139, Clause (6.11.0-6.11.4)

Breathing Air Supply Hose Details:

Anti Static Hose

- Anti Static Hose type approved to BS EN 139 (Tests on Compressed Airline Supply Tube to the Requirements of Clause 6.10,12 & 22)
- Anti static Hoses available in lengths approximately 30 metres.

Please Note:

The maximum total length of hose (Anti static & P.V.C.) allowable in any combination is 90 metres

Technical Specification

- Air Trailer two axel auto braked, two tonne carrying capacity, EEC approved
- Complete air trailer weight with six full cylinders one Tonne
- Air Storage Cylinder working pressure 30/Sbar TP450 Bar. Manufactured from C M alloy to ISO 9809/3
- Valves to BS 341/3
- Safety Valves to BS EN ISO4126-1 2004 set at 330 bar.
- Air Lines Safety valve set at 13.5 Bar located on regulators in control panel.
- Anti static Breathing air hose to BS EN 139 6.10.12 and 22.
- Breathing Air to BS EN 12021 and all European Standards.
- Diktron DS4 MK11 Alarm set at 5 Bar EX rated to EN 60079-0 &EN 60079-11-2012
- Warning Whistles high pressure set at 50 Bar
- Warning whistles low pressure set at 5 Bar
- Complete Breathing Air Trailer manufactured to BS EN 139 conforms to BS EN 4275



**Unit 4, Sragh Business Park,
Sragh Avenue,
Tullamore, Co. Offaly
R35 X2N5
+353 57 933 0782**

**Unit 7, The Foundry,
Sanda Road,
Belfast,
BT37 9UB,
+44 289 5757 981**