

Model MP-2300ENB

MULTI-PAK™ BOTTLED AIR CART WITH LOW PRESSURE ALARM WHISTLE

Manual No. PAK014
(Rev 1 September 2001)



Operating Manual



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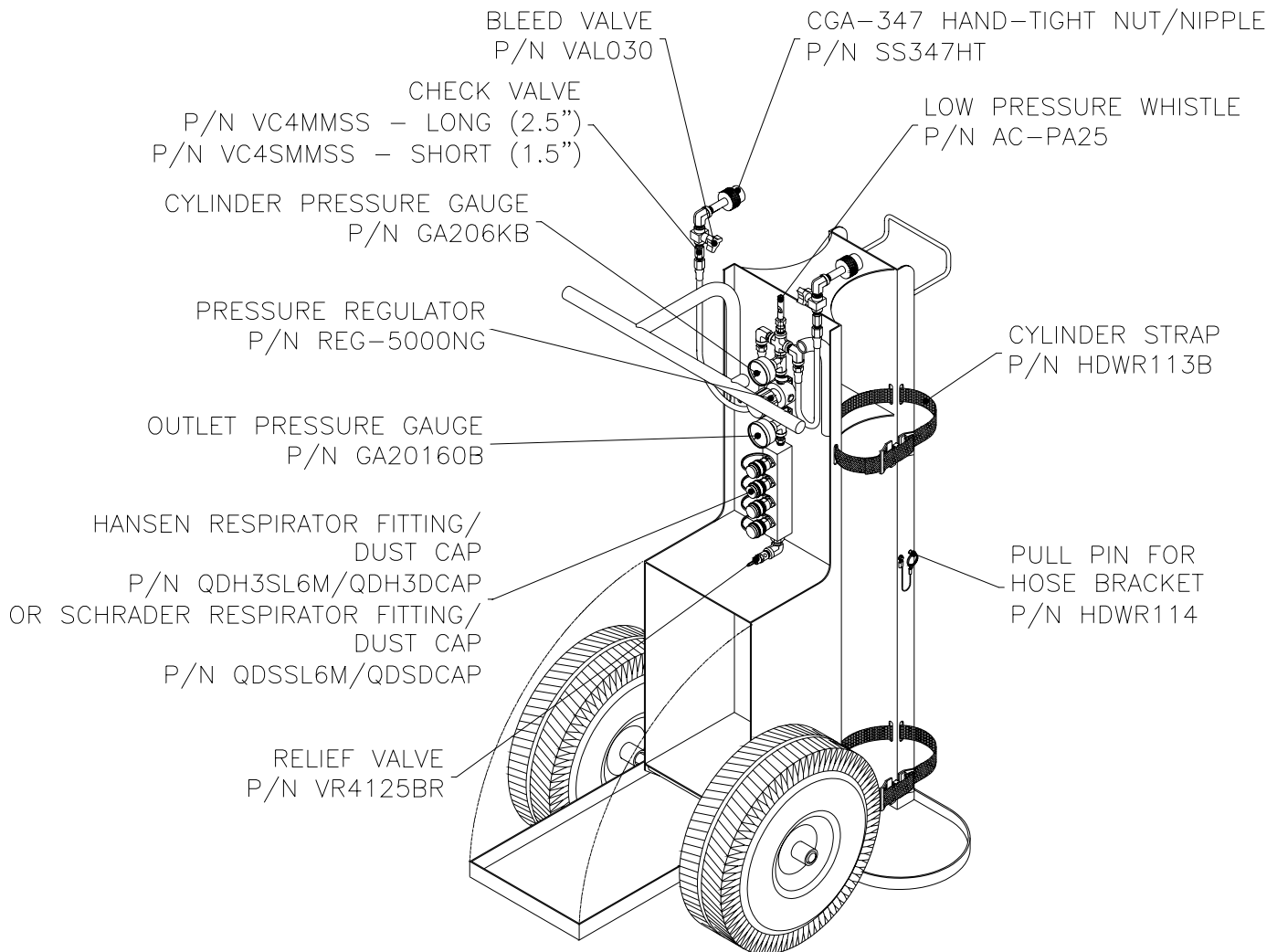
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SPECIFICATIONS AND PARTS IDENTIFICATION

Size w/o cylinders:	48H x 25W x 31D
Weight w/o cylinders	120 lbs.
Frame:	Steel (Powder coated)
Cylinder Straps:	Four (4) adjustable
Whip Assemblies:	5000psi (345 bar) rated 4:1 safety factor
Bleeder Valves	Allows depressurization of hand tight nut
Check Valves:	Allows independent cylinder operation
Low Pressure Whistle:	Pneumatic - set at approximately 500psi (34.5 bar)
Regulator:	0-5500psi (379bar) inlet 0-125psi (8.6 bar) discharge
Regulator Flow Rate:	80 cfm @ 100psi discharge
Relief Valve:	125psi (8.6 bar) ASME preset
Air Distribution:	Four (4) quick connect fittings
Intrinsically Safe:	No electronic devices



SETUP PROCEDURE

STEP 3)

Open one cylinder. At this time the low pressure warning alarm will sound until it sets itself at approx. 1000psi (69 bar). Check reading on gauge to verify cylinder is full. Close the cylinder.

STEP 4) LOW PRESSURE ALARM TEST

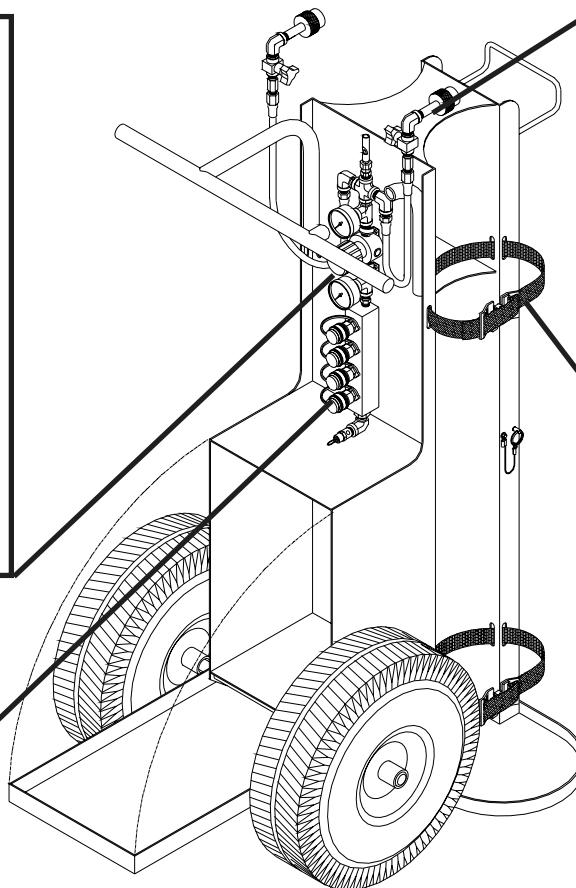
Set the required respirator pressure with the regulator control knob and bleed the pressure at either the relief valve or by partially engaging a male plug into one of the respirator couplings. This depressurizes the manifold and simulates low cylinder pressure. The low pressure warning alarm will sound at approximately 500psi (35bar). Open the other cylinder. Check reading on gauge to verify cylinder is full.

STEP 2)

Install universal CGA-347 hand tight nuts to the cylinder valves and tighten. Insure both bleeder valves are closed by turning fully clockwise.

STEP 1)

Install cylinders on MULTI-PAK™ tray. Secure cylinders by tightening the straps at the buckle and mate the velcro sections to prevent slipping.



STEP 5)

Couple respirators and lengths of hoses to the manifold and readjust pressure regulator if necessary. The system is now operational.

OPERATION

When the cylinder in use has been depleted to approximately 500psi (35 bar), the low pressure warning alarm will sound indicating that the cylinder needs to be replaced.

To change a cylinder while the MULTI-PAK™ is still in use:

- 1) Open the second cylinder and note the gauge pressure to assure that it is full.
- 2) Close the drained cylinder.
- 3) Open the bleeder valve to relieve line pressure. Remove the CGA-347 hand-tight nut.
- 4) Remove the drained cylinder and install a full cylinder in its place. Reinstall the CGA connections.

Close bleeder valves. The cylinder is now ready for use when the other cylinder's pressure descends to 500psi.

Note: The system is equipped with check valves that will prevent back flow from the other cylinder in use.

SHUTDOWN

Make sure all personnel have egressed the hazardous area and have disconnected from the breathing air system.

- 1) Close cylinder valves.
- 2) Depressurize manifold pressure by pulling the relief valve ring.
- 3) Close the regulator by turning the control knob counterclockwise.
- 4) Disconnect airline hoses and reinstall dust caps.
- 5) Remove connections from cylinders and reinstall cylinder valve covers (if applicable).

HIGH PRESSURE AIRLINE GENERAL MAINTENANCE & INSPECTION

Monthly

1. Check regulators, gauges, and valves for external leakage.
2. Inspect cylinder valves for proper closure.
3. Check cylinder pigtails for cleanliness, flexibility, wear, leakage, blisters on hose, thread damage, and O-rings on CGA fittings. Replace damaged items immediately.

Annually

1. Check relief valve's pressure setting.
2. Check regulator function by opening and closing regulator valve knob fully.

Every 4 years

1. Replace all flexible pigtails - consult factory.

Note: When the components are used in accordance with the manufacturer's instructions and recommendations, the "system" meets or exceeds federal regulations presently in force. It is incumbent upon the user to comply with any changes in the regulations or law which may occur in future situations.

Warranty Disclaimer

Air Systems' manufactured equipment is warranted to the original user against defects in workmanship or materials under normal use for one year after date of purchase. Any part which is determined by Air Systems to be defective in material or workmanship will be, as the exclusive remedy, repaired or replaced at Air Systems' option. This warranty does not apply to electrical systems or electronic components. Electrical parts are warranted, to the original user, for 90 days from the date of sale. During the warranty period, electrical components will be repaired or replaced at Air Systems' option. **NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER IS GIVEN BY AIR SYSTEMS IN CONNECTION HEREWITH. UNDER NO CIRCUMSTANCES SHALL THE SELLER BE LIABLE FOR LOSS OF PROFITS, ANY OTHER DIRECT OR INDIRECT COSTS, EXPENSES, LOSSES OR DAMAGES ARISING OUT OF DEFECTS IN, OR FAILURE OF THE PRODUCT OR ANY PART THEREOF.**

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Air leaks are not covered under warranty except when they result from a defective system component, i.e. an on/off valve or regulator or upon initial delivery due to poor workmanship. Air leaks due to poor delivery or damage will be covered under delivery claims. Minor air leaks are part of routine service and maintenance and are the responsibility of the customer just as are filters and oil changes.