



International

# NBK-5 NITROGEN BACKPACK KIT - LP / QDC

January 26, 2009



## NITROGEN BACKPACK KIT (Low Pressure Service 0 - 150 psig)

*The NBK-5, a lightweight, low pressure nitrogen gas backpack service kit with QDC connections, provides users with a more efficient method of servicing rotary/ fixed wing aircraft and other military equipment requiring nitrogen gas servicing.*

**The NBK-5 - Nitrogen Backpack Kit, P/N 410620** - is a low pressure service version of the original NBK-1 design, featuring the new LPSK-1A operator controls while providing the same lightweight aspect allowing it to be easily transported for operation in remote/advance deployment areas as well as providing daily maintenance requirements at improved/main base operations. The NBK-5 provides service personal with an efficient method of servicing aircraft and other military equipment requiring regulated low pressure nitrogen gas service. The lightweight Backpack is ideal for delivering a gas cylinder for low pressure nitrogen service (up to a maximum 150 psi) directly to the point of need without struggling with long hoses lines and requiring multiple personnel handling existing cumbersome and heavy nitrogen carts. The cylinders are the same high pressure nitrogen backpack cylinders used with our NBSS and NDSK systems and easily filled with our CFK-1 (Containment Fill Kit) with a supplied source of high pressure nitrogen gas from an MNG, SNG, GANG or directly in our CvB nitrogen generating MANCS (Mobile Air/Nitrogen Charging System).



# NBK-5 NITROGEN BACKPACK KIT - LP / QDC

## Low Pressure Nitrogen Backpack Kit P/N: 410620 Consists of the Following:



- **Low Pressure Service Kit (LPSK-1A) P/N 410717 (NSN 3555-01-572-6345)**

The service kit consists of an aluminum housing containing a cylinder "Supply Pressure" gauge (0-5000 psig), a "Pressure Regulator" (0-400 psig), a "Fill Pressure" gauge (0-200 psig), a "Tire Pressure" gauge (0-200 psig). In addition, it includes a built-in bleed valve and a safety relief valve set at 150 psig. A 28 inch long high pressure hose is attached to the inlet side of the enclosure with a high pressure QDC connector that mates with the QDC adapter on the backpack cylinder. The outlet side of the kit enclosure has a 10 foot low pressure fill hose with a quick disconnect socket for attaching the low pressure tire fill chuck or the rotor blade fill chuck.

- **CGA-680 to QDC Adapter (CGA-QD) P/N 410810 (NSN 8140-01-572-6392)**

A CGA-680 hand tight nut to Quick Disconnect adapter is provided to enable the NBK kits the use of earlier backpack cylinders P/N 410580 fitted with a CGA-680 connection.



- **QDC to CGA-680 Adapter (QD-CGA) P/N 410787 (NSN 8120-01-572-6405)**

A Quick Disconnect connector to CGA-680 adapter enabling the NBK backpack cylinders P/N 410780 the ability to connect to earlier CGA-680 components.



- **SLV-1 Cylinder Sleeve (SLV-1) PN: 410789-1**

A cylinder sleeve, designed to aid in basic protection for the high pressure backpack cylinder. It does not provide protection from abuse, carelessness or mishandling. High pressure cylinders must never be dropped, dragged, struck against each other or other objects. High pressure backpack cylinders must be handled with extreme care at all times.



- **Backpack Cylinder Assembly (CYL-74) P/N 410780 (NSN 8120-01-572-6397)**

A lightweight aluminum vessel with carbon fiber wrap and epoxy coating, D.O.T. approved and in service with many CVB (MANCS) Mobile Air/Nitrogen Charging Systems. Fitted with a high pressure service shut-off valve, burst disc and pressure gauge. Valve is fitted with a QDC connector for service attachment.

Length .....	25.5 in.	Weight (empty) .....	13 lbs.
Diameter ...	6.9 in.	Weight (filled) .....	20 lbs.
Cylinder Pressure .....			4500 psig
Cylinder Capacity .....			88 scf.

- **Backpack Harness Assembly (HRN-3A) P/N 410735-1 (NSN 3655-01-572-6308)**

A premium lightweight harness assembly similar to that worn by Scuba/Special Ops units. Has a padded back plate with heavily padded shoulder straps and a wide adjustable waist belt to handle the high pressure and low pressure service kits comfortably when attached to it.

Length .....	18 in	Width .....	12 in.
Weight .....	6 lbs.		