



International

NBK-4

NITROGEN BACKPACK KIT - HP / QDC

March 25, 2009

NITROGEN BACKPACK KIT

*(High Pressure Service
to 4500 psig)*

The NBK-4 is a lightweight, high pressure nitrogen gas backpack service kit with QDC connections, providing users with a more efficient method of servicing rotary/ fixed wing aircraft and other military equipment requiring nitrogen gas servicing.

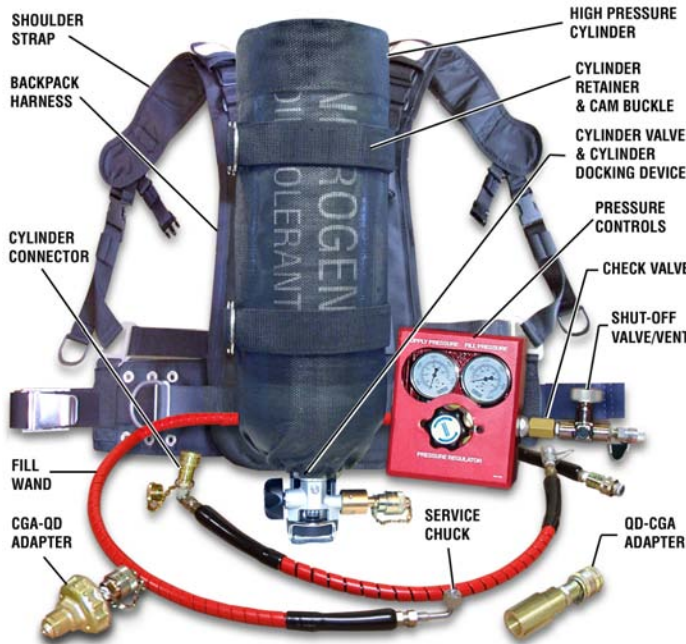


The NBK-4 - Nitrogen Backpack Kit, P/N 410610 - is a revised version of the original NBK-1 design, featuring new redesigned HPSK-1A operator controls while providing the same lightweight aspect allowing it to be easily transported for operation in remote/advance deployment areas as well as providing daily maintenance requirements at improved/main base operations. The NBK-4 provides service personal with an efficient method of servicing aircraft and other military equipment requiring high pressure nitrogen gas service. The lightweight Backpack is ideal for delivering a high pressure nitrogen gas cylinder (up to 4500 psig) 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 QDC version of same high pressure nitrogen 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-4 NITROGEN BACKPACK KIT - HP / QDC

High Pressure Nitrogen Backpack Kit P/N: 40610 Consists of the Following:



- **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.

- **High Pressure Service Kit (HPSK-1A) P/N 410727 (NSN 3655-01-572-6314)**

The high pressure service kit contains an aluminum enclosure housing a "Supply Pressure" gauge (0-5000 psig), a high pressure "Pressure Regulator" valve (0-5000 psig) and a "Fill Pressure" gauge (0-5000 psig) along with miscellaneous internal pneumatic components. The enclosure is equipped with a snap clip to attach the kit to backpack harness belt. 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 HPSK-1A enclosure has a check valve and combination shut-off/bleed valve. Attached to the shut-off valve is a 48 inch long high pressure service hose that terminates with a high pressure service chuck for high pressure servicing.

- **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 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.

