Powering Business Worldwide

IN64702
August 1997

Applicable additional manuals:
IN64035 Installlation Instructions
IN64102 Installation Instructions

Aerospace Group
Conveyance Systems Division
Carter® Ground Brand Fueling Equipment

Installation Instructions

Digital Pressure Control Coupler

Model 64702

NOTE: OEM/CUSTOMER - PLEASE FILL OUT AND MAIL IN THE REGISTRATION CARD PROVIDED WITH THE INSTALLATION INSTRUCTIONS, IN64035 or IN64235. SEE THAT INSTRUCTION MANUAL FOR FURTHER INSTRUCTIONS.

SUMMARY OF REVISIONS

DATE OF CHANGE	PARAGRAPH/ PAGE	REV LTR	E.O. NO.	REVISION	APPROVED BY
8/15/97	Cover	A		Revised to release under EO	

TABLE OF CONTENTS

1.0 SCOPE

These installation instructions have been developed for use in mounting a Model 64702 Digital Coupler on any hydrant servicing vehicle. These instructions do not cover all requirements for such an installation which might be dictated by other authorities which have jurisdiction over the use of your vehicle. The responsibility for proper final installation configuration is yours. Consult with the local airport authority or corporate authority for further information.

2.0 EQUIPMENT SUPPLIED BY CUSTOMER

The following is a listing of the required equipment supplied by the customer on the refueling vehicle. The digital coupler system needs to interface with all of the items below:

- Hoses, valves and fittings to connect between the 64102 and the 64702.
- Accumulator utilized as the fluid power source for the 64102. (See installation instructions IN64102 for connection details.)

3.0 GENERAL DESCRIPTION:

Eaton's Carter brand Model 64702 Digital Coupler is a version of the standard Model 60700-1 Pressure Control Hydrant Coupler. It is designed to attach to a 4 inch Hydrant Pit Valve conforming to the design criteria in API 1584. The inlet of the 64702 Digital Coupler is the connection made to the hydrant pit valve. The outlet of the 64702 is a quick disconnect joint for attaching to an intake hose or similar fluid conduit for the delivery of fuel to the aircraft. One 3/8 inch hose attaches to the top of the 64702. The other end of this hose is connected to a 64102 Manifold Assembly which allows for the controlled operation of the 64702 Digital Coupler.

4.0 INSTALLATION:

4.1 Installation of the quick disconnect joint to the fuel delivery conduit (hose or pipe) is identical to all other Carter Hydrant Couplers and is covered in documentation for those products.

4.2 One hose connects to the port on the top of the 64702 marked in the casting as “AIR”. This is the port to which deadman air pressure is attached to the traditional 60700-1 Coupler. If a “wrap-around” type coupler hose is used, the hose can be installed directly into the port. If a hose reel is used for the coupler hose, then is necessary to install a double dry-break disconnect assembly in between the coupler port and the hose. This will prevent the incursion of air into the command hose system. The other end of this hose connects to the 64102 to supply fuel into and out of the control cavity of the 64702. See the installation instructions for the 64102 Manifold Assembly, IN64102, for specifics about the hose required for this application. **It is important that the hose used be of a type that does not expand or contract easily. Such action will hinder the operation of the system at low flows.**

4.3 It is suggested that a valve of some sort on a tee fitting be installed at this location which can be used to bleed air out of this conduit and out of the control cavity of the pressure control valve. Bleeding of the fuel command line is extremely important to good control.

It is recommended that one “over-bleed” this line to be sure. After the initial bleeding, conduct a test of the system changing the aircraft manifold back pressure from high to low to high to get the coupler to open and close. Actuate the deadman several times. Do this with the bleed valve open to purge air from the system.

4.4 Once the physical installation is complete and the vehicle is filled with fuel, upon first pressurization of the 64702 Digital Coupler, follow the instructions in the installation instructions for the 64102, IN64102, to bleed air from this line and the 64702.

Aerospace Group
Conveyance Systems Division
9650 Jeronimo Rd
Irvine, CA 92618
Ph (949) 452-9500
Fax (949) 452-9992

Powering Business Worldwide