



Carter® Ground Fueling

4" Hydrant Coupler

API Style

Eaton's Carter® Brand

Model 64900



Design Concepts

The 64900 is a new coupler designed to supersede the 60700-1. It is used for air reference pressure control systems. Two other versions are also available, the 64902 for digital pressure control systems, and the 64903, which is electro-hydraulically controlled. Many new features have been incorporated into the design of the 64900. Most of these features have been at the request of long-time users of the 60700-1 Coupler, the standard of the industry for over 25 years.

Features

- Air/fuel sense ports parallel to outlet
- All ports with straight O-ring sealed threads
- 3" & 4" NPT or BSPP outlet threads available
- Air bleed under sealed screw
- Closing time adjustment accessible without removal of air port fitting
- Studs used for connecting lower half. Chance of over-tightening connecting fasteners reduced
- Existing 60700-1 Couplers can be retrofitted to gain most new features by changing only the elbow
- Outlet of elbow flanged to accept various outlet male adapter fittings. Options to mate to older Quick Disconnects (QD's) available. This also reduces maintenance costs when male fitting is damaged
- Thumb latches on QD — easier to remove from hose with no tools
- Optional carrying handles available. Transverse-mounting standard, parallel optional as is a second QD mounted handle

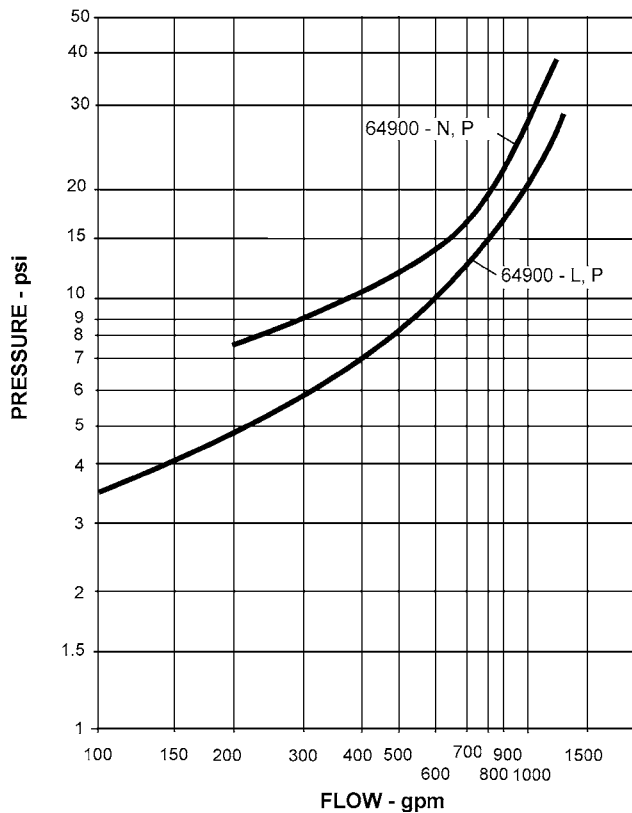
- Carriage affixed by studs. No special length bolts required reducing chances for errors when carriage is added in the field
- Port to connect to hydrant provided on coupler. No special hose assembly required
- Parts common to 4" in-line valves and 60700-1 used for less costly maintenance.
- Lower half of coupler (connecting unit to hydrant) has not been changed
- Changes have been made without an increase in weight
- Suitable for operating pressures of 200 psig and system proof pressure of up to 450 psig
- Mates all standard hydrant valves in accordance with API 1584.
- Outlet of elbow flanged to accept various outlet male adapter fitting — options to mate to older QD's
- Pressure drop — 21.0 psi across mating 60554 Hydrant Valve and 64900 Coupler at 1000 gpm

Operation Information

The 64900 is a direct spring loaded pressure control unit that is controlled by the air reference pressure provided from the vehicle system. It is nearly identical in design as the widely used 60700-1 with changes to improve operational handling of the elbow to keep the weight the same. A sealed screw outside of the air hose fitting provides closing time adjustment. A sealed screw is also used to bleed the unit of air.

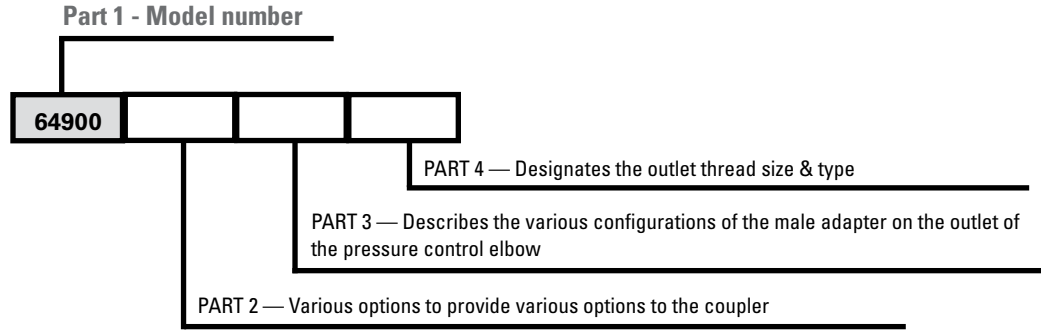
Technical Data

- Inlet mates any standard hydrant valve in accordance with API 1584
- Outlet threads available in either 3 or 4" NPT or BSPP style
- Weight — 27.1 lbs.
- Operated by vehicle air reference pressure
- Outlet QD has thumb latches for easy disconnecting without use of any tools. Safety locking ring available as an option
- Working pressure — 200 psi
- Proof pressure — 450 psi
- Closing Time — 2 - 5 seconds (adjustable).
- Opening Time — 5 - 10 seconds (no adjustment).
- Overshoot - 50 US gal. maximum at 1000 USgpm.
- Air Pressure Operated - Nominal Bias (air pressure required above control pressure) — 25 psi (Bias increases to approximately 33 psi at flow rates up to 1200 USgpm)
- Fully Open Pressure Drop — 21.0 psi at 1,000 USgpm when mated to 60554 Hydrant (See chart at right for more data)
- Mates all adapters in accordance with API 1584



Ordering Data

Various options are available on the 64900. The part number system for the 64900 is as shown to the right. The complete part number is comprised of four parts as explained in the tables below.



PART 2

One or more of the options shown in the table (right) may be added to the basic model number 64900 to obtain desired features.

OPTION LETTER	DESCRIPTION	OPTION LETTER	DESCRIPTION
B	Adds folding handle (41731)	J	Adds 3/8" hose barbs to air & fuel
C	Adds Product Selection (41802)	R	Adds 90° elbow 1/4" FNPT for air/dual operated hydrant valve actuation
D	Adds lockwire to flange joint fasteners	W	Adds Carriage Assembly (60532)
E	Adds API style Air/Fuel QD (61498)	Y	Adds Handle Assembly at outlet (47224)
F	Adds hose barb fittings to air and fuel ports	Z	Replaces standard transverse carrying handle at centerline of coupler with handle parallel to outlet (47214)
H	Adds 3/8" NPT to both air & fuel ports	W	Adds Carriage Assembly (60532)

Part 3

One of the options described in the table (right) must be added to determine the outlet male adapter configuration.

OPTION	DESCRIPTION	OPTION	DESCRIPTION
3	Male adapter fitting to mate 60700-1 female QD	4	Male adapter to mate with 44220 QD

Part 4

One of the options described below must be added to specify the outlet thread size and type.

OPTION LETTER	DESCRIPTION	OPTION LETTER	DESCRIPTION
L	Adds 3" NPT Threaded Female QD (41730-3)	P	Adds 4" NPT threaded female QD
M	Adds 3" BSPP threaded female QD	R	Adds 4" 8NPSC threaded female QD
N	Adds 4" BSPP threaded female QD		

Note: If part four is left blank no female quick disconnect will be shipped. This is a proper designation when it is desired to use a 64900 to replace a 60700-1, 60600 or 60600-1 Coupler. In this case part three must correctly designate the proper male adapter fitting.

Example:

- 64900BF3L Coupler with folding handle, hose barbs in all air/fuel ports, male adapter fitting to mate female QD, QD with 3" NPT threads
- 64900C3 Coupler with Product Selection and male adapter fitting to mate to female QD (no female QD provided)

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