



**EATON**

## **Carter® Ground Fueling**

Pressure Fueling Nozzle

Eaton's Carter® Brand  
Model 64200



# Design Concepts

Building on the success of earlier model 64348, the lightweight and rugged 64200 Pressure Refueling Nozzle has been designed to increase durability and decrease maintenance costs.

The 64200 nozzle uses the same accessories as the 64348 Nozzle. All accessories now have stainless steel wear rings in swivel ball joints.

The interlock mechanism is internal to the nozzle body, therefore there are no pins to wear aircraft adapter slots. It has no collar or other moving parts on the exterior of nozzle (with the exception of the operating lever), thereby reducing the need to replace worn components. The handles are made of a very rugged standard composite material and do not include any metal to bend.

Options include a "U" Bracket for nozzle stowage and a one-piece stirrup handle with stowage capability — no need to use the aircraft adapter or a special type of stowage device.

The operating lever, replaceable from the exterior of the nozzle and made of less expensive, more ductile material, is backed up with a boss on the nozzle body to prevent bending. The operating lever has a replaceable knob to eliminate razor sharp abrasion wear patterns prevalent on competitor's nozzles. The lever has also been designed to turn in a counter-clockwise direction (64348 was clockwise). This eliminates interference with some aircraft that are not designed to standards.

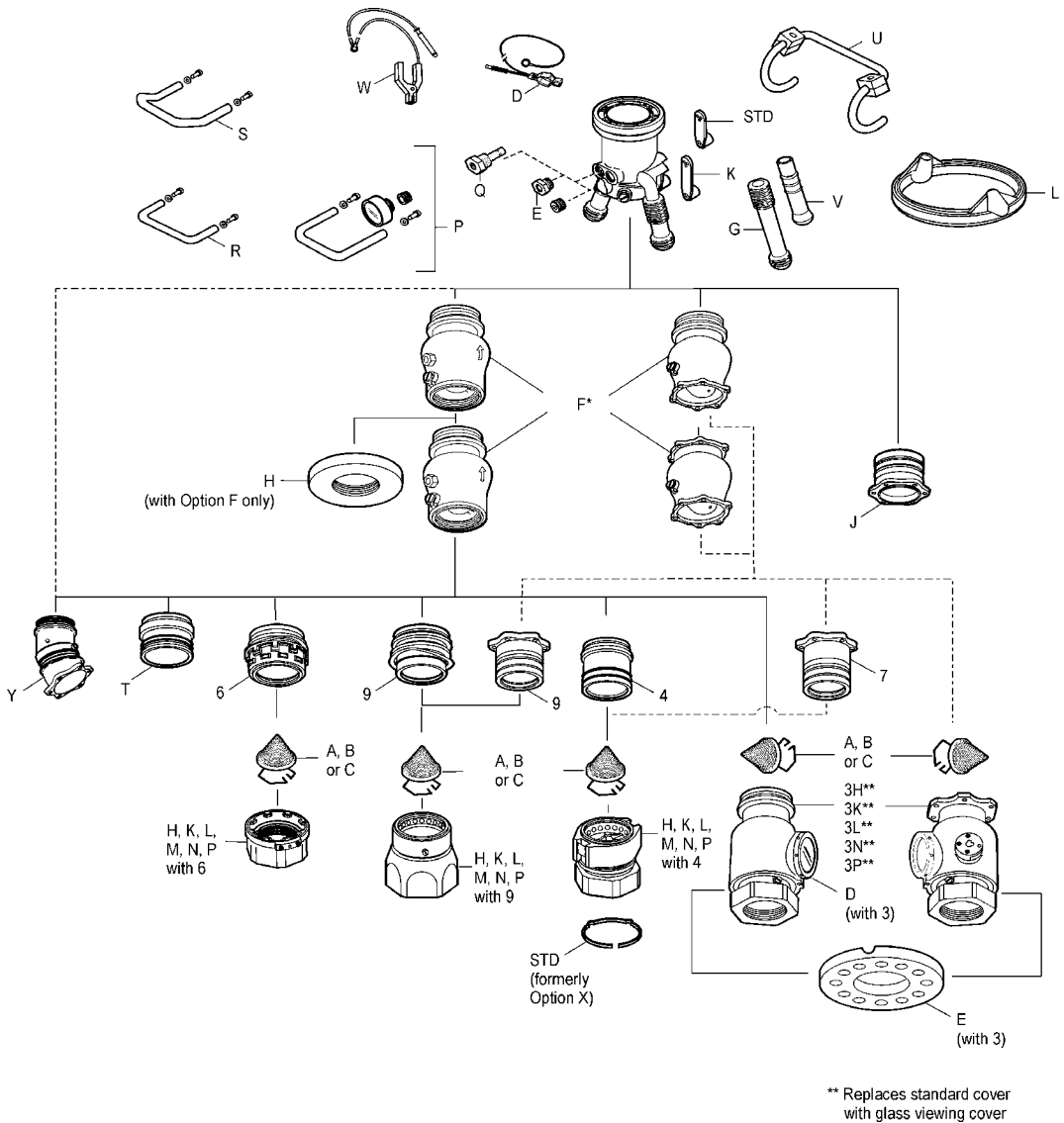
## Features

- Connects to 3-lug international standard aircraft adapter
- Self-adjusting pressure loaded nose seal. No mechanical adjustments or springs used
- Sampling fitting installation are standard
- Leak free under extreme side loads, worn adapters and extreme temperatures. Low pressure drop
- Two threaded ports in nozzle body for simultaneous vacuum breaker and product
- 2, 2½ & 3" NPT & BSPP threaded Quick Disconnect (QD) inlets available

- Optional 40, 60 & 100-mesh screens retained with snap ring for ease of removal
- 15, 35, 45, 48 & 55 psi Hose End Regulators available
- Double redundant safety lock on/easy off QD
- Easier swiveling under all conditions. Swivel independent of QD
- Choice of Ball Valve or Dry Break Disconnect for easy strainer inspection available

## Illustrated Options

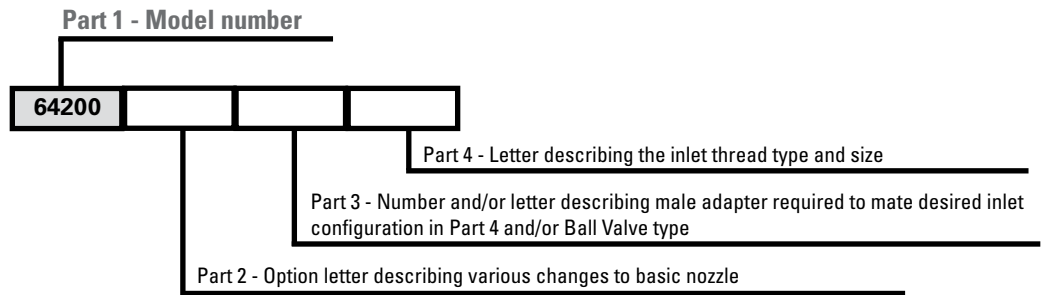
Solid lines represent one path of compatible options. Dotted lines connect an alternate path of compatible options. Refer to the tables under "Ordering Data" for complete descriptions of the various options.



# Ordering Data

## Part 1

Basic model number. Options from Parts 2, 3 & 4 must be added to achieve a complete unit.



## Part 2

The following options may be added as Part 2 of the part number as indicated above to order a unit to meet your requirement.

OPTION	DESCRIPTION	OPTION	DESCRIPTION
*A	Adds 40-mesh screen	K	Long Crank Handle (can not be used with Option 3 alone. May be used when combined with Options F and/or 3)
*B	Adds 60-mesh screen	L	Circular Handle
*C	Adds 100-mesh screen	P	Pressure Gauge/gauge protector bar
D	Adds Bonding Cable (47235)	Q	Adds Fuel Sample QD (GTP-235-3/8)
E	Adds Vacuum Breaker (41599)	R	Adds Interlock Mounting Bracket
**F1	Adds 15 psi Hose End Regulator	S	Holder Bracket (not needed with Option U)
**F3	Adds 35 psi Hose End Regulator	T	Adds Male Adapter to mate Whittaker F577/F582 Inlet
**F4	Adds 45 psi Hose End Regulator	U	Replaces Stick Handles with Stirrup Handle with integral interlock bracket
**F5	Adds 55 psi Hose End Regulator	V	Handle, UK style
**F6	Adds 48 psi Hose End Regulator	W	Grounding Cable Assy with Clip & Plug
G	Long Handles		
J	Adds Adapter to mate to 60427 style QD		
*	Options A, B, C only available when a male half or a Ball Valve from Part 3 is specified		
**	To obtain a nozzle with two regulators, specify two options in series. F5F4 results in 55 and 45 psi units with the 55 psi assembly as the one nearest the inlet. If two regulators with different pressures are required, the higher pressure unit should be specified first		

## Part 3

The configuration of the inlet is defined by adding the appropriate number or number and option letter from the table (right) in conjunction with the appropriate option letter from Part 4 below. The nozzle may terminate in an adapter half only, if desired. In this case, leave Part 4 blank. To obtain a female half, Quick Disconnect (QD) or Dry Break, or to complete the specification of the Ball Valve outlet, Part 4 must be completed.

OPTION	DESCRIPTION	OPTION	DESCRIPTION
*1	Specifies 60427 flanged type accessory pad on hose end regulator	J	Adds Ball Valve operating handle. (If short handle is desired see 64015 catalog sheet for order details)
*2	Specifies ball swivel end to Hose End Regulator	R	Adds Ball Valve defuel operating key
**3	Adds Ball Valve (64015). If a Ball Valve operating handle and defuel key are required, refer to 64015 catalog sheet for order details	4	Adds male Adapter, Swivel QD
D	Adds Glass Inspection Port to Ball Valve. Option 3 only	6	Adds male Adapter half to mate standard QD (44316)
E	Adds Drag Ring to Ball Valve. Option 3 only	7	Adds male Adapter half to mate 61154 Dry Break (44185 with Regulator; 44697 without Regulator)
*	If no inlet adapter (Options 6, 7 or 9 or Ball Valve Option 3 are specified and a Hose End Regulator(s) is specified, it is necessary to indicate the inlet configuration, either Option 1 or 2 as noted		
**	The inlet size and configuration option from Part 4 must be included in the part number with Option 3 to achieve a completed nozzle and Ball Valve		

## Part 4

Options specifying the desired thread for adapters or Ball Valves selected in Part 3, above.

OPTION	DESCRIPTION	OPTION	DESCRIPTION
H	Inlet Thread — 2-1/2" NPT	N	Inlet Thread — 2" BSPP
K	Inlet Thread — 2-1/2" BSPP	P	Inlet Thread — 2" NPT
L	Inlet Thread — 3" NPT	Z	3" JIS Female Disconnect
M	Inlet Thread — 3" BSPP (not available with Option 3)		

### Examples:

64200CDF4HR6H	Basic nozzle with a 100-mesh strainer (C), Vacuum Breaker (E), 45-psi Hose End Regulator (F4), Drag Ring on the Hose End Regulator (H), Interlock "U" Bracket (R), standard disconnect (6) with 2-1/2" NPT female inlet thread (H)
64200CF5F5U6K	Basic nozzle with a 100-mesh strainer (C), dual 55 psi Hose End Regulators (F5F5) (one closest to the nozzle will have a single swivel, one farthest from the nozzle will be flanged both ends), stirrup handle (U), standard disconnect (6) with 2-1/2" BSPP inlet thread (K)
64200CF43DEJR6K	Basic nozzle with a 100-mesh strainer (C), 45-psi Hose End Regulator (F4) (flanged inlet), flanged outlet Ball Valve (3) with glass viewing port, drag ring (E), operating handle (J) and defuel key (R) with 2-1/2" BSPP inlet thread

**Aerospace Operations**  
**Conveyance Systems Division**  
671 W. 17th Street  
Costa Mesa, CA 92627  
tel: (949) 764-2200  
fax: (949) 631-2673  
[www.eaton.com/aerospace](http://www.eaton.com/aerospace)



©2008 Eaton  
All rights reserved  
Printed in USA  
Form No. TF100-100  
January 2008