Carter® Brand
Emergency Breakaway Couplings

Model 64024
Model 64121
Model 64191
Model 64226
Model 64227

Powering Business Worldwide

Design Concepts

Eaton's Carter brand emergency breakaway couplings (EBC's) are available for use with 2, 2-½, 3 & 6-7 inch hose sizes.

Model 64024

Model 64024 is a 2 inch unisex breakaway coupling designed to provide emergency breakaway with a side load of 200 pounds (90 kg) or more pulling force on the hose attached to the coupling. It can be interchangeably mated with unisex couplings made by Eaton's Aeroquip brand. Made in accordance with MIL-R-53076.

Model 64121

Model 64121 is the smallest of the new line of emergency breakaway couplings and can be used in 1 or 2 inch systems. These couplings will separate with a force of 225-250 pounds (102-113 kg) or more applied in an angular direction up to 45° from the axis of the coupling. The separation is a clean and dry break, keeping spillage to a minimum.

Inlet and outlets are available with 2 inch female NPT threads standard. BSPP threads are available as option A. Many combinations of threads & flanges (including ANSI or special flanges) on inlet and outlet ends are available on special orders.

Features

- Couplings are repairable — one set of spare shear pins is carried onboard each unit
- Seals suitable for aviation jet fuels
- Stainless steel and aluminum construction
- Very low pressure drop through the units

Model 64226

Model 64226 is the larger version of the side-pull/angular emergency breakaway coupling and can be used in 2-½ or 3 inch systems. These couplings will separate with a force of 250 pounds (113 kg) or more applied in an angular direction up to 45° from the axis of the coupling. The separation is a clean and dry break, keeping spillage to a minimum.

Inlets and outlets are available with male or female 2-½ inch NPT threads standard. Many combinations of threads and flanges (including ANSI or special flanges) on inlet and outlet ends are available on special orders.

Features

- Couplings are repairable — one set of spare shear pins is carried onboard each unit
- Seals suitable for aviation jet fuels
- Stainless steel and aluminum construction
- Very low pressure drop through the units

Model 64227

Model 64227 is a 3 inch coupling with inlet and outlets available in 3 inch male or female NPT threads, standard. Many combinations of threads and flanges (including ANSI or special flanges) on inlet and outlet ends are available on special orders.

Features

- Unit separates with double dry break
- Can be reconnected without the use of tools or replacement parts
- Low pressure drop through the unit
- Stainless steel and aluminum construction
- Seals to suite the product used

Model 64024

Model 64121

Model 64226

Model 64227

Model 64191

Eaton's Carter brand Model 64191 emergency breakaway fueling coupling was developed in conjunction with the Canadian Navy as part of their search to eliminate fuel spillage at sea. The new coupling meets or exceeds all of the requirements of the new NATO replenishment at sea coupling specification and is the replacement for the existing NATO "B" breakable spool. Model 64191 is designed to be used with abeam, astern "lay on deck" and with Hudson Reel standard 6 or 7 inch hose. When a pulling force of approximately 1100 pounds (5 kN) is applied, the coupling will automatically disconnect and dry break on both sides, with less than 100cc of fuel spillage. The coupling, which weighs less than 80 pounds (36 kg), is easily connected or disconnected by one person without the need for special tools.

The coupling assembly consists of two components — a probe (64191-1) and receiver (64191-2), which are ordered separately.

See Model 64191 catalog sheet (TF100-99A) for more information.

Special Use Requirements

Eaton can provide special couplings to fit your needs. Provide the following information:

- Product used
- Inlet and outlet configuration and size needed
- Flow rate through the coupling
- Desired force needed to separate the two halves
- Direction of force to separate — straight pull or angular. If angular, specify approximate angle for your application.
- Temperature range for the application

Model 64191-1 Probe

Model 64191-2 Receiver

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