# The MRN-4-1 Gravity Refuelling Nozzle Kit

How the MRN-4-1 Gravity Refuelling Nozzle Kit refines the refuelling process



Interchangeable spouts accommodate compatibility with a wide range of air frames, minimising fuel spills often caused by the poor compatibility of traditional gravity refuelling nozzles. The spouts can be designed and modified to suit any airframe, application, or requirement.



Compact, lightweight, and space saving, ideal for operations where available space is minimal or restricted such as Forward Arming and Refuelling Points (FARP), deployments, aviation refuelling operations from Naval vessels as well as those conducted on land via fuel tankers.



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The connection coupling can be modified or changed to suit any requirements from a sexless coupling to a cam-lock or threaded connection.

The nozzle assembly, spout, and coupling are Petroleum, Oil, and Lubricants (POL) compliant, containing no reactive materials.

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# The MRN-4-1 Gravity Refuelling Nozzle Kit

The Facts

# Classification

- NSN: 4930-66-166-7295
- MILIS Description: Nozzle, Fuel and Oil Servicing, Aircraft Gravity Refuelling Kit
- Part Number: MRN-4-1-KIT
- Supplier: Chief Fluid Systems Pty Ltd
- CAGE: Z0JS9

# Compatibility

 Due to our ability to design and manufacture a compatible spout for any requirement, the kit is compatible with a wide range of airframes. The standard MRN-4-1-KIT is compatible with a variety of airframes including Sikorsky, Boeing, Bell, Airbus, and Eurocopter, including external fuel tanks

### **Our Difference**

 Traditional gravity refuelling nozzles are expensive, cumbersome, and hard to operate, as well as hazardous due to compatibility and design issues that are often the cause of fuel spills. Chief Fluid Systems has spent the last 2 years engineering out these problems and more to create the MRN-4-1-KIT

#### The Kit

- The MRN-4-1-KIT contains:

   1 x Nozzle fitted with 2"
   Sexless hose connection,
   Dust Cap, MIL Spec Clamp/Pin and
   Bonding Wire
- 1 x Short Spout
- 1 x Straight Spout
- 1 x Angled Spout
- 1 x External Fuel Tank Spout
- The kit is enclosed in a Trimcast case complete with fuel resistant foam inserts

## The Nozzle

- The entire nozzle assembly is Petroleum, Oil, and Lubricants (POL) compliant, containing no reactive materials, and resistant to all manner of petroleum aviation fuels, marine and automotive unleaded and diesel fuels, oil based fluids, salt water, and fresh water
- The nozzle is an auto shut off type with a safety lockout device to avoid accidental activation. The nozzle cannot be locked on during a fuelling cycle
- The connection coupling can be modified to suit any requirement
- Flow rates up to 200L/min (52.83gal/min)



Self Aligning
Nozzle
Connection



Short Straight
Spout
Configuration



Long Straight
Spout
Configuration



External Fuel
Tank Spout
Configuration



Angled Long Spout Configuration



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