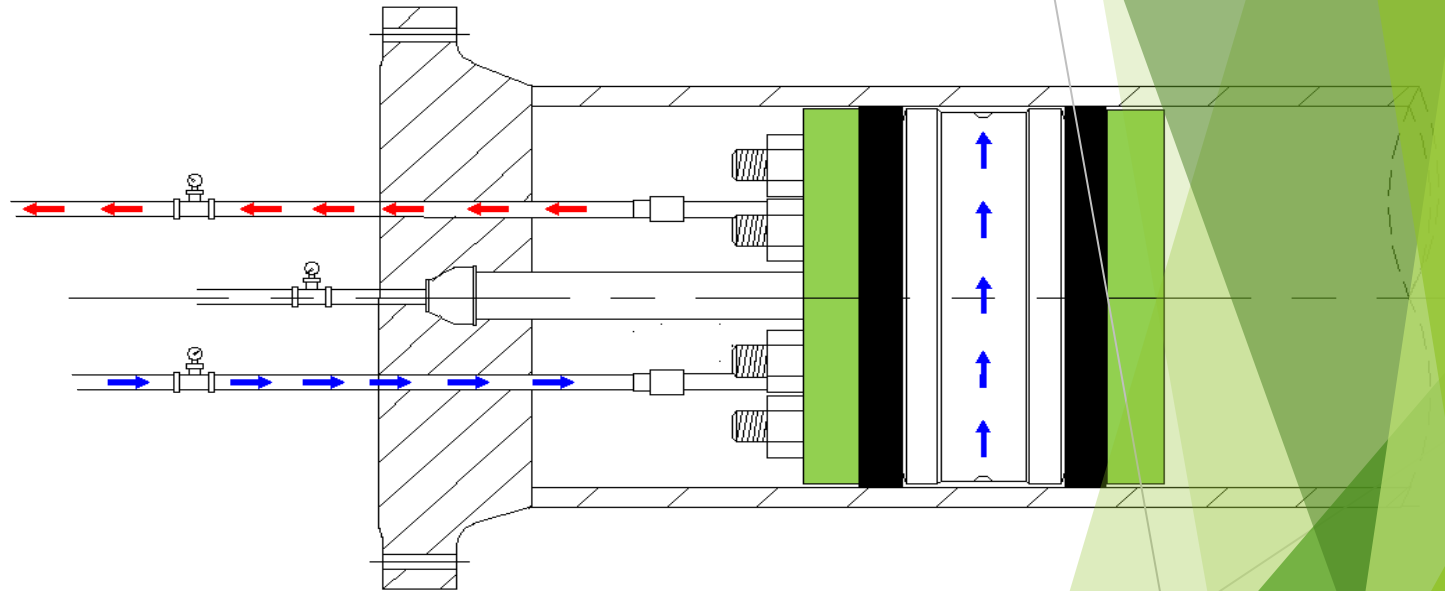
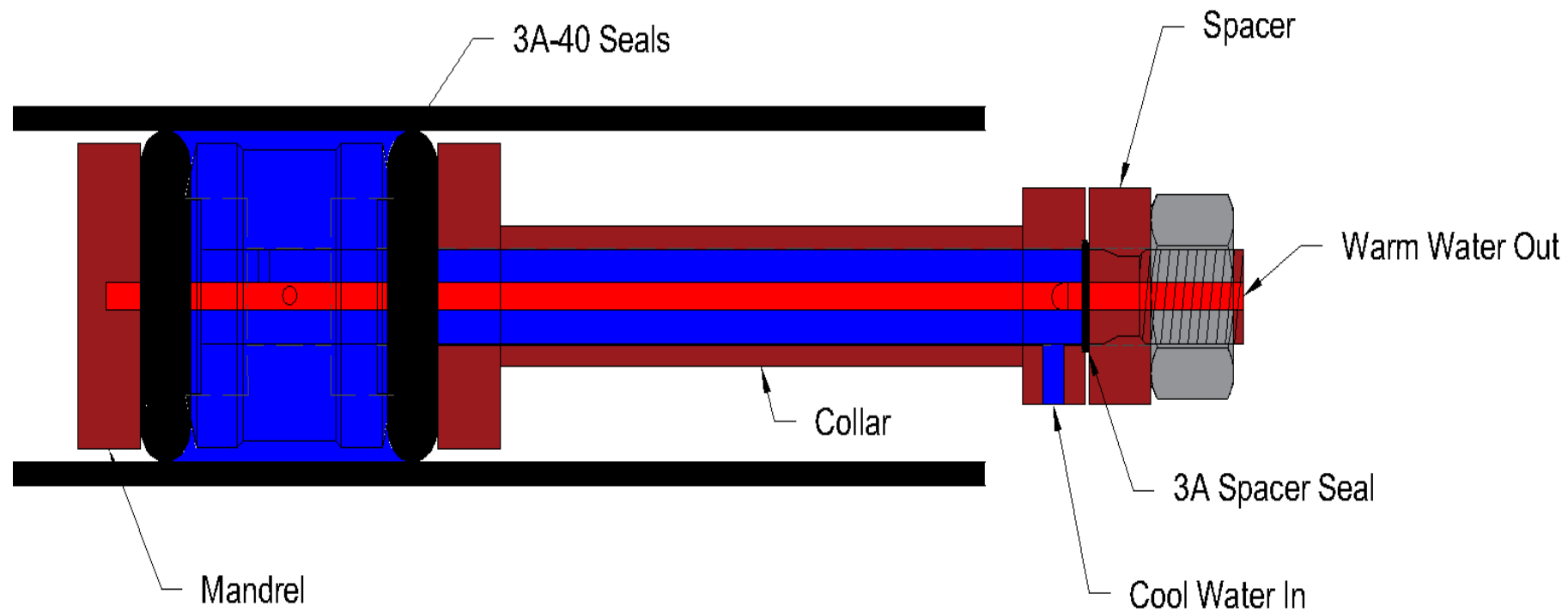


# Hydrodynamic Isolation

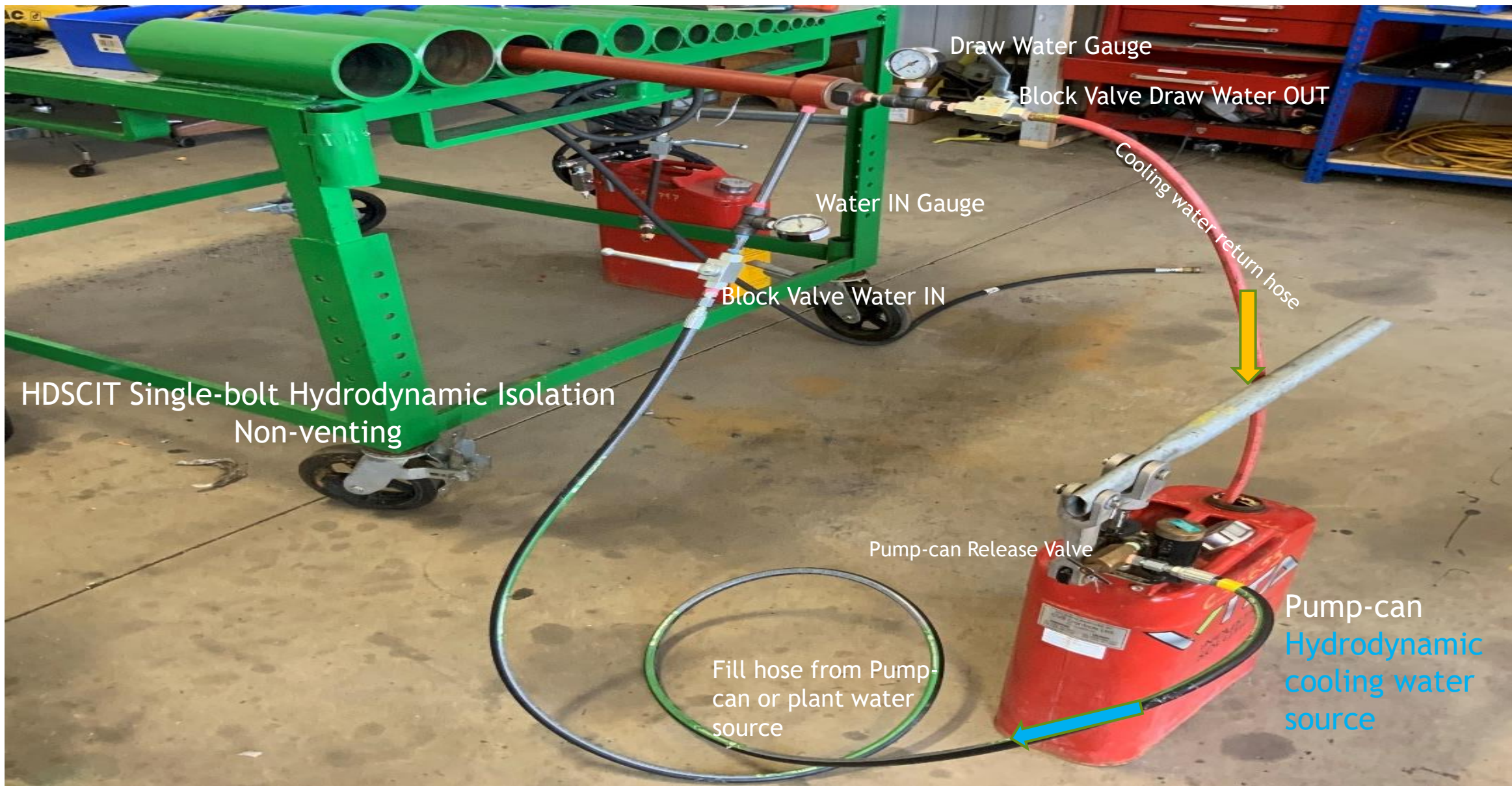


Multi-bolt HDSCIT Tool with venting capabilities

# Hydrodynamic Isolation



Single-bolt HDSCIT Tool with NO venting capabilities



HDSCIT Single-bolt Hydrodynamic Isolation  
Non-venting

Draw Water Gauge

Block Valve Draw Water OUT

Water IN Gauge

Block Valve Water IN

Cooling water return hose

Pump-can Release Valve

Fill hose from Pump  
can or plant water  
source

Pump-can  
Hydrodynamic  
cooling water  
source

# What is the Hydrodynamic Isolation Tool?



**PURPOSE**



**FUNCTION**

# Hydrodynamic (HDSCIT Tool)

## Purpose:

- ▶ Purpose:
- ▶ The purpose of a Hydrodynamic SCIT Tool (HDSCIT) is to provide a constant cycle of cooling water to the Isolation Tool during Post Weld Heat Treatment (PWHT) operations, while still maintaining positive pressure between the seals to keep a constant hydrostatic barrier in place.

# Hydrodynamic (HDSCIT Tool)

## Function:

- ▶ How is a Hydrodynamic Isolation achieved...
- ▶ The HDSCIT Tool requires a constant supply of water continuously flowing through the isolation tool to dissipate the heat from welding or Post Weld Heat Treatment (PWHT) operation.