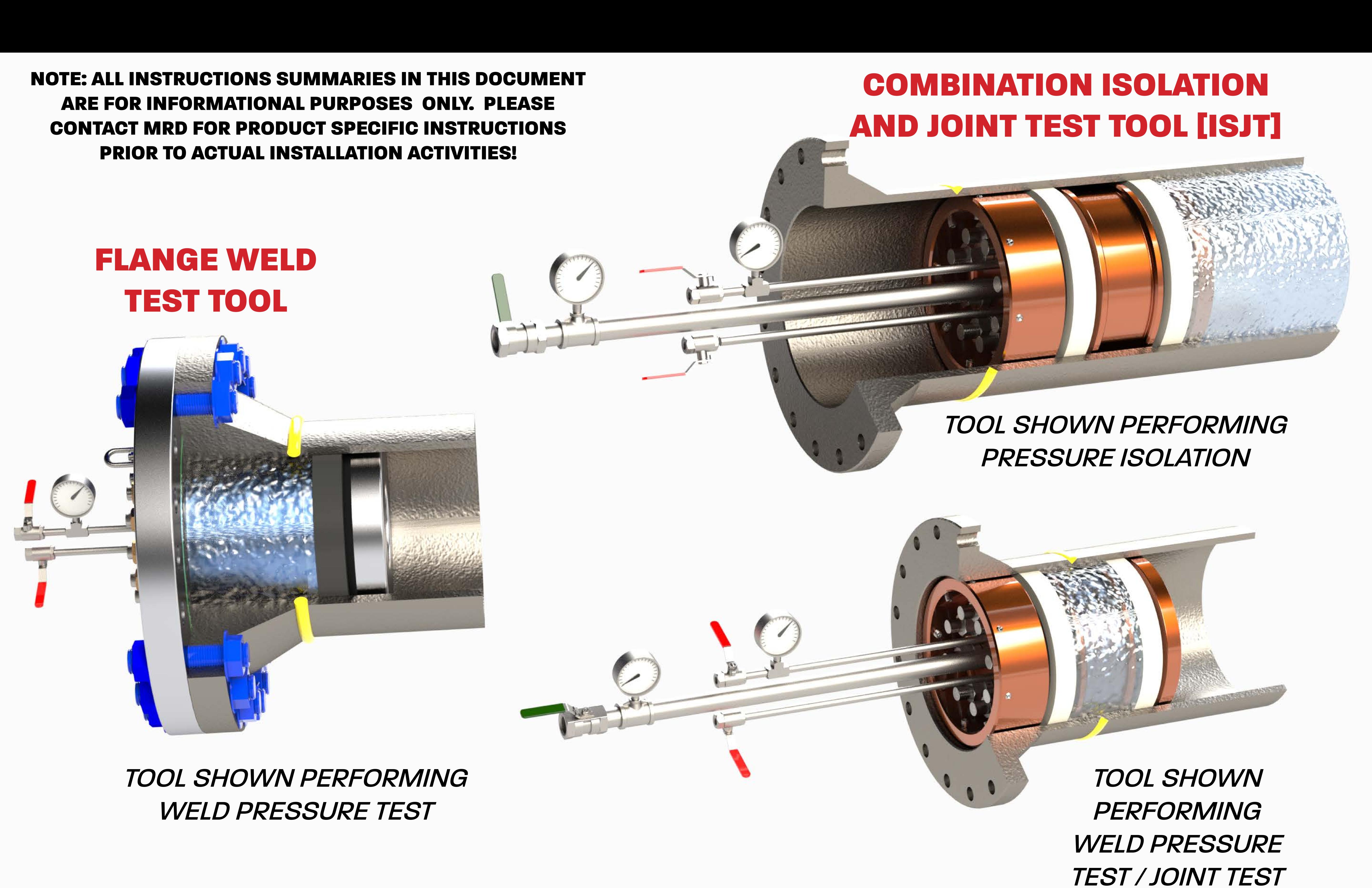
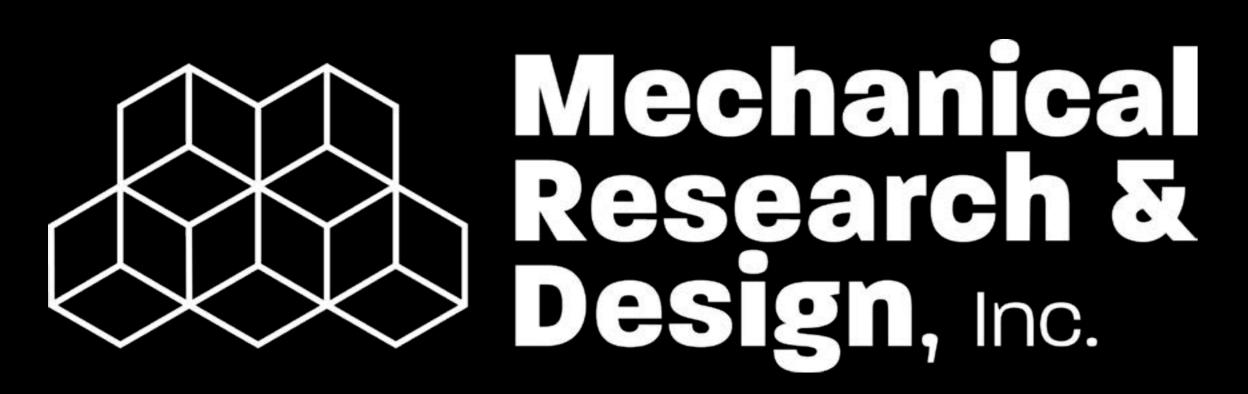
FLANGE TESTERS VS. COMBINATION ISOLATION AND JOINT TEST TOOLS



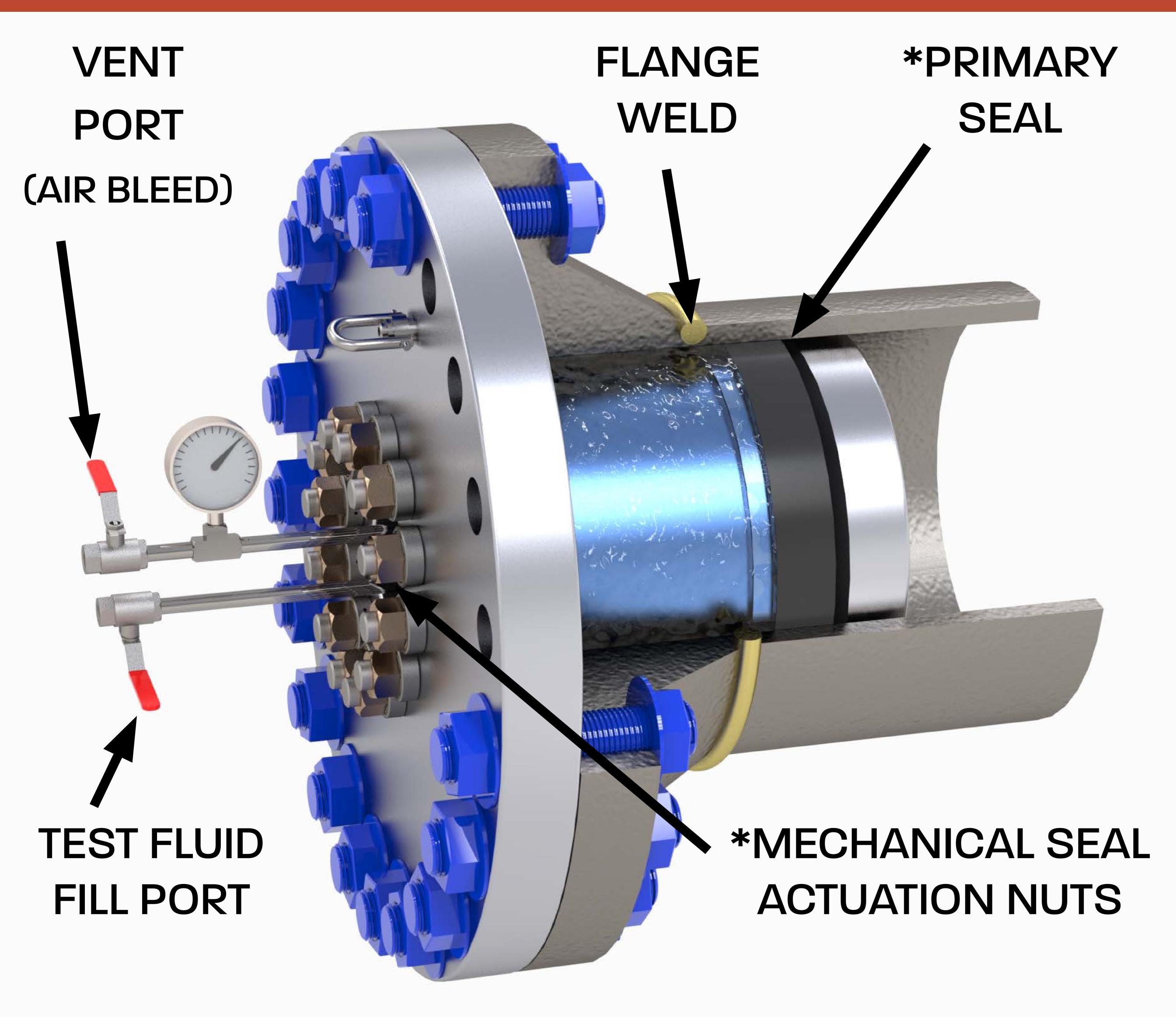


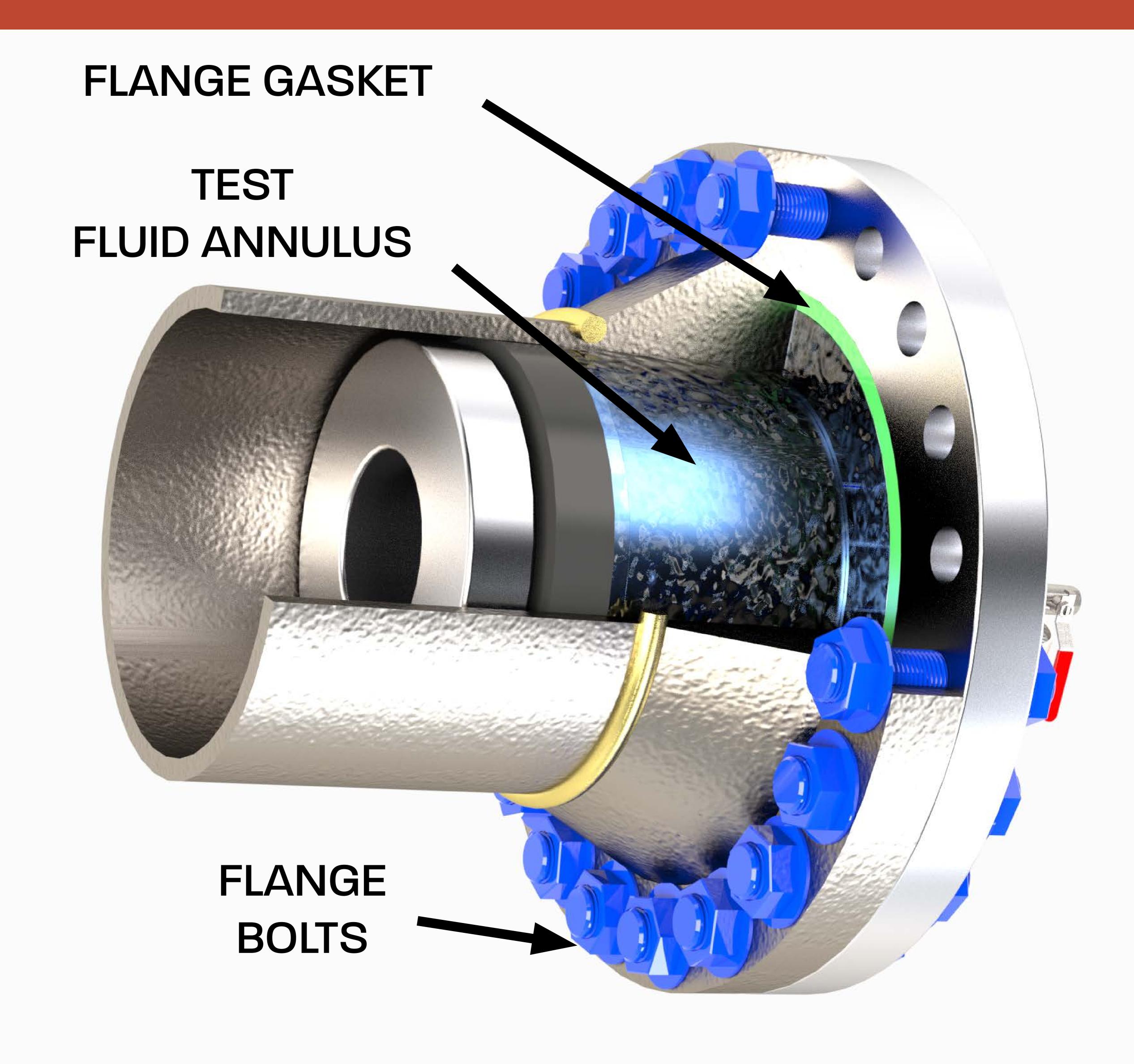




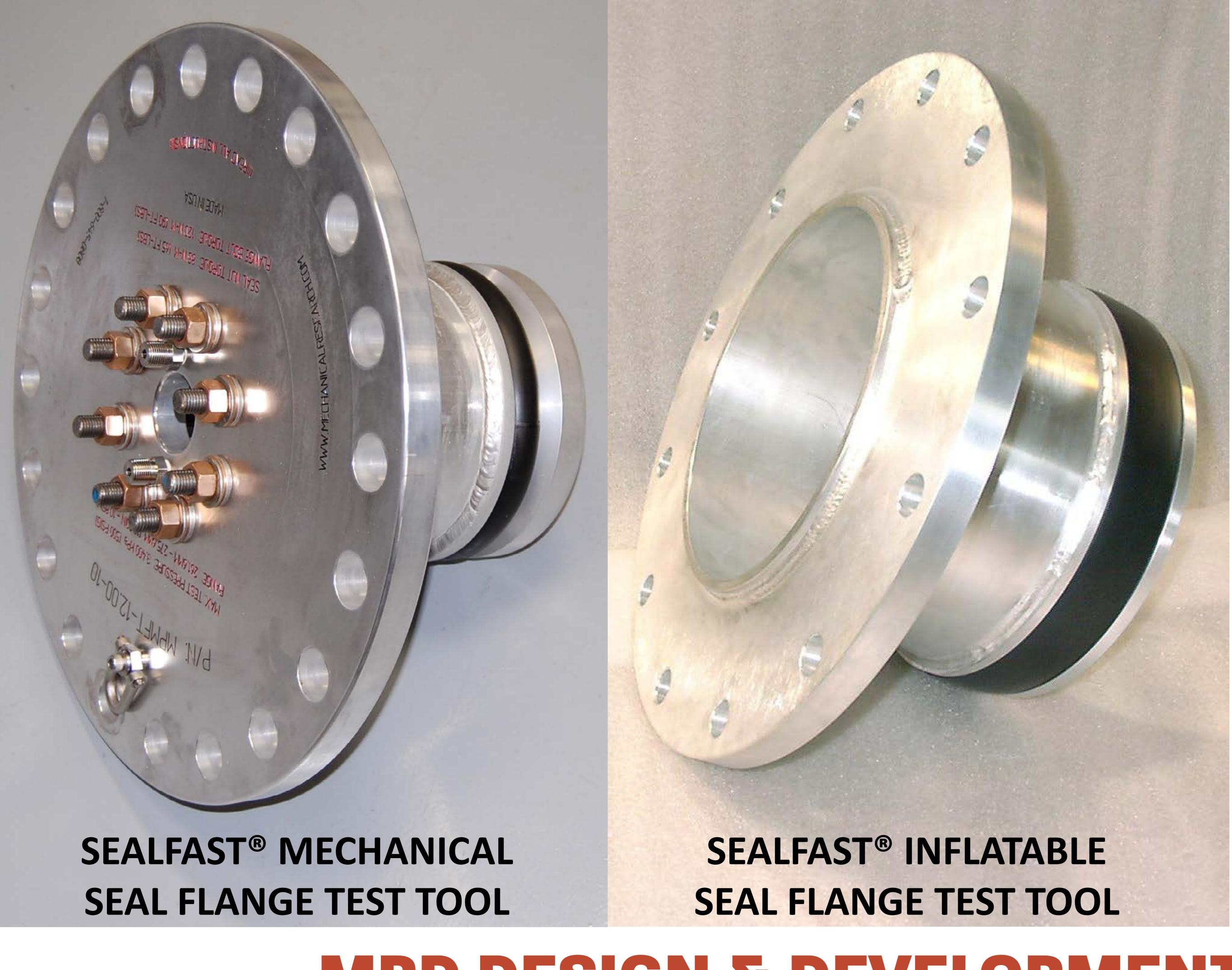
FLANGE TESTERS VS. COMBINATION ISOLATION AND JOINT TEST TOOLS

FLANGE TEST TOOLS - SEALFAST® MECHANICAL AND INFLATABLE SEAL VERSIONS





*NOTE: SEAL CAN BE EITHER SEALFAST® MECHANICAL OR INFLATABLE



TOOL PURPOSE:

FLANGE WELD PRESSURE TEST DEVICE

FUNCTION:

INSTALL TOOL WITH FLANGE BOLTS AND FLANGE GASKET IN PLACE. ACTUATE PRIMARY SEAL. INSERT TEST FLUID, VENT AIR, PRESSURIZE TEST FLUID ANNULUS TO TEST PRESSURE, & HOLD PRESSURE.

ADVANTAGES OF THIS TOOL:

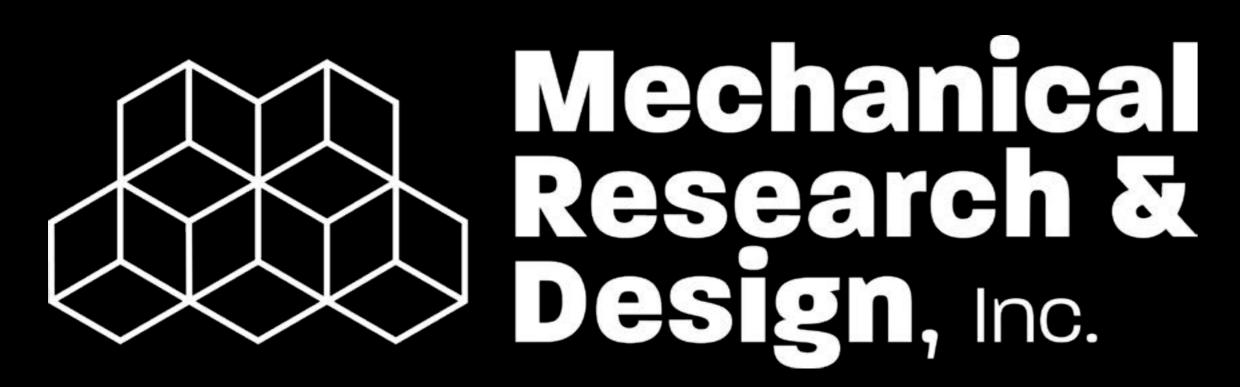
- 1. TOOL PRESSURE TESTS / LEAK TESTS WELD.
- 2. TOOL CAN BE DESIGNED TO APPLY AXIAL TENSION TO WELD (NOT JUST RADIAL STRESS).
- 3. TOOL TESTS FLANGE FACE FOR SEALING COMPATIBILITY.

TO LEARN MORE PLEASE VISIT:

https://mechanicalresearch.com/products/flange-testers/

MRD DESIGN & DEVELOPMENT - ENGINEERED SOLUTIONS

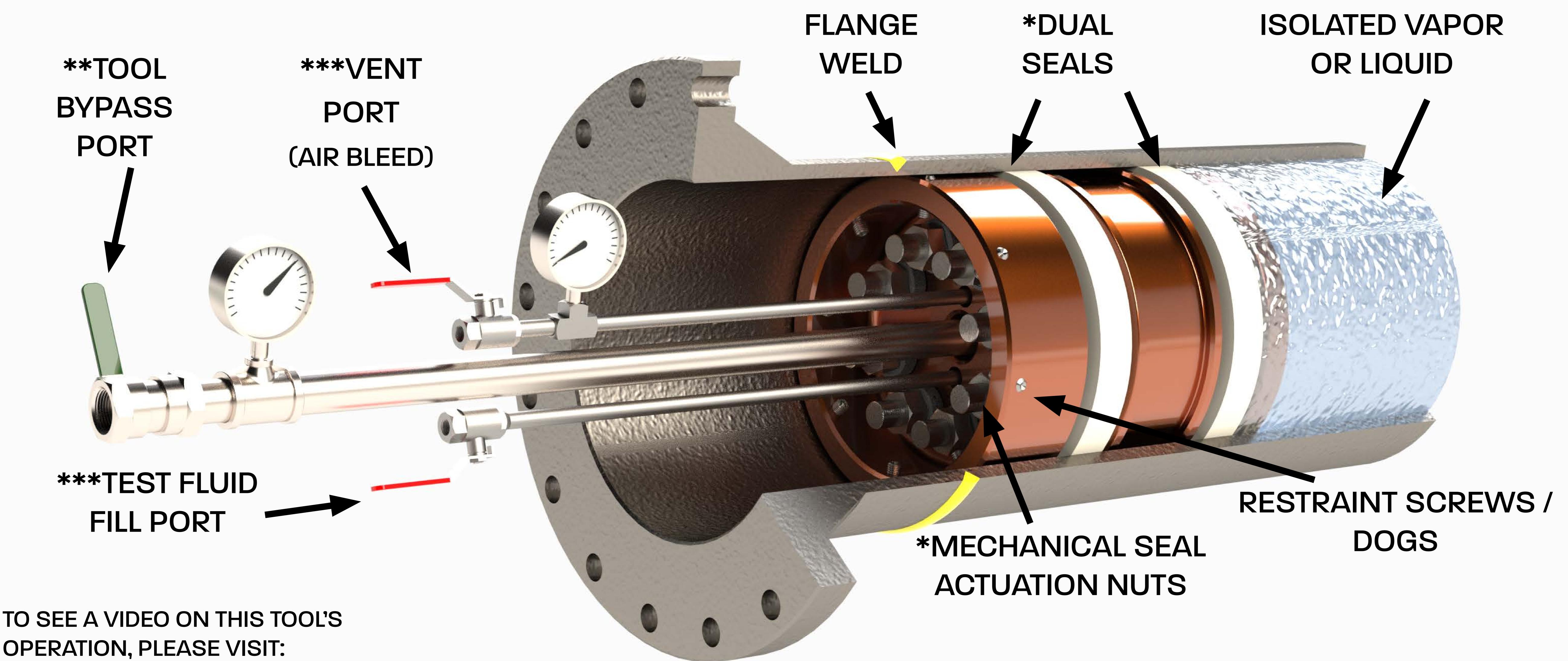
WE DO THE BEST WORK UNDER PRESSURE!





FLANGE TESTERS VS. COMBINATION ISOLATION AND JOINT TEST TOOLS

COMBINATION ISOLATION & JOINT TEST TOOLS [ISJT] - ISOLATION



OPERATION, PLEASE VISIT:

https://www.youtube.com/ watch?v=nWe 5uQsnnU

TO LEARN MORE PLEASE VISIT:

https://mechanicalresearch.com/ products/combination-isolation-and-joint-test-tools/

*NOTE: SEAL CAN BE EITHER SEALFAST® MECHANICAL OR INFLATABLE.

**BYPASS CAN BE CLOSED TO HOLD BACK PRESSURE OR LEFT OPEN AND VENTED TO A SAFE, REMOTE LOCA-TION BASED ON INDUSTRY REQUIREMENTS.

***TYPICALLY LEFT OPEN DURING ISOLATION. CAN BE USED TO TEST TO ENSURE BOTH SEALS FUNCTION.

TOOL PURPOSE:

FLANGE WELD & PIPE WELD PRESSURE TEST DEVICE - SHOWN ON NEXT PAGE. PRESSURE ISOLATION TOOL (DOUBLE BLOCK AND BLEED DEVICE)- SHOWN ABOVE.



INSTALL TOOL IN PIPE PAST WORK RE-GION (WELD). FULLY TORQUE RESTRAINT SCREWS. TIGHTEN SEAL ACTUATION NUTS. CONFIRM DOUBLE SEAL WITH FILL & VENT PORT. CLOSE BYPASS***.

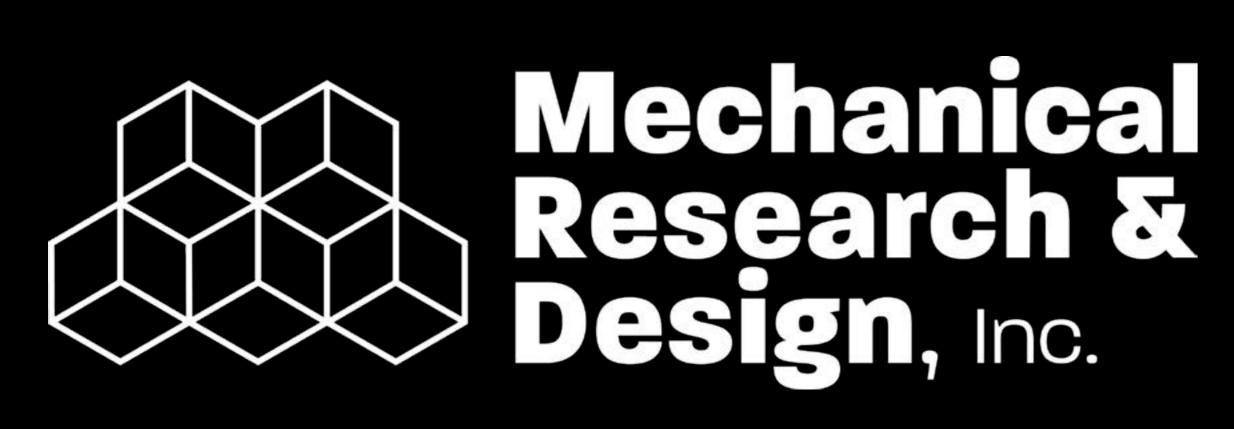
ADVANTAGES OF THIS TOOL:

- 1. TOOL PRESSURE TESTS / LEAK TESTS WELDS.
- 2. TOOL CAN ALSO BE USED AS A PRES-SURE RATED DOUBLE BLOCK AND BLEED ISOLATION DEVICE (PENDING REGULATO-RY REQUIREMENTS REVIEW).
- 3. INTEGRAL RESTRAINT SYSTEM BUILT INTO TOOL.





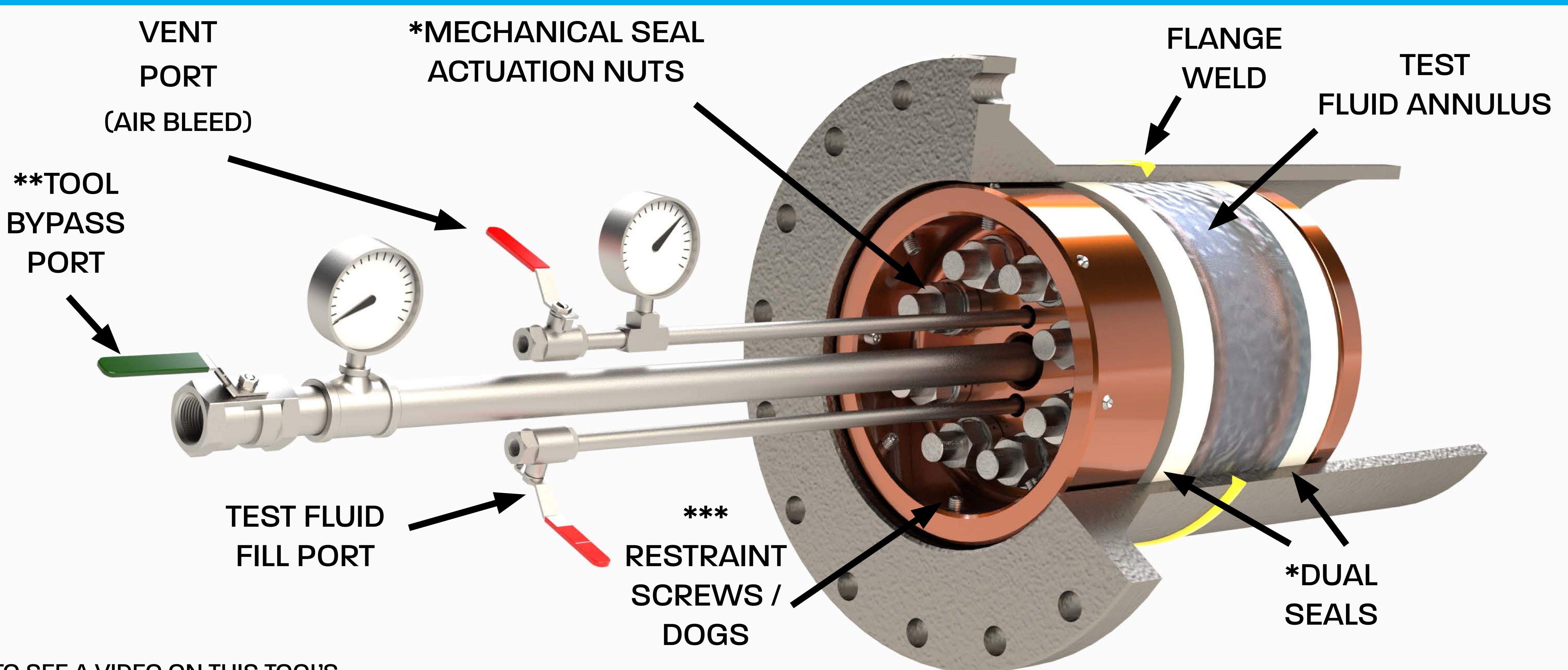






FLANGE TESTERS VS. COMBINATION ISOLATION AND JOINT TEST TOOLS

COMBINATION ISOLATION & JOINT TEST TOOLS [ISJT] - WELD TEST



TO SEE A VIDEO ON THIS TOOL'S OPERATION, PLEASE VISIT:

https://www.youtube.com/ watch?v=nWe_5uQsnnU

TO LEARN MORE PLEASE VISIT:

https://mechanicalresearch.com/

products/combination-isola-tion-and-joint-test-tools/

*NOTE: SEAL CAN BE EITHER SEALFAST® MECHANICAL OR INFLATABLE.

**BYPASS IS USUALLY LEFT OPEN DURING THIS STEP AS RESTRAINT IS NOT FULLY SET.

***RESTRAINT SCREWS ARE TYPICALLY USED ONLY FOR CENTERING, NOT HOLDING TOOL, AS THERE IS NO NET DIFFERENTIAL PRESSURE ON TOOL AND BYPASS IS OPEN.

TOOL PURPOSE:

FLANGE WELD & PIPE WELD PRESSURE TEST DEVICE)- SHOWN ABOVE.; PRESSURE ISOLATION TOOL (DOUBLE BLOCK AND BLEED DEVICE) - SHOWN ON PREVIOUS PAGE.

FUNCTION:

ADJUST RESTRAINT SCREWS TO KEEP TOOL CENTERED IN PIPE. INSTALL TOOL IN PIPE, CENTERING WELD BETWEEN SEALS. LEAVE RESTRAINT SCREWS UNTIGHTENED AND BYPASS OPEN. TIGHTEN SEAL ACTUATION NUTS. FILL TEST REGION WITH TEST FLUID THROUGH FILL PORT WHILE VENTING AIR FROM VENT PORT. WHEN AIR IS REMOVED, CLOSE VENT. BUILD TEST PRESSURE AND HOLD (FILL PORT CAN BE KEPT OPEN OR CLOSED DEPENDING ON IF PRESSURE OR LEAK TEST IS PERFORMED).

ADVANTAGES OF THIS TOOL:
MULTI-FUNCTIONAL TOOL - SEE PREVIOUS
PAGE.



