



Flange Inspection

FLANGE FACE CORROSION



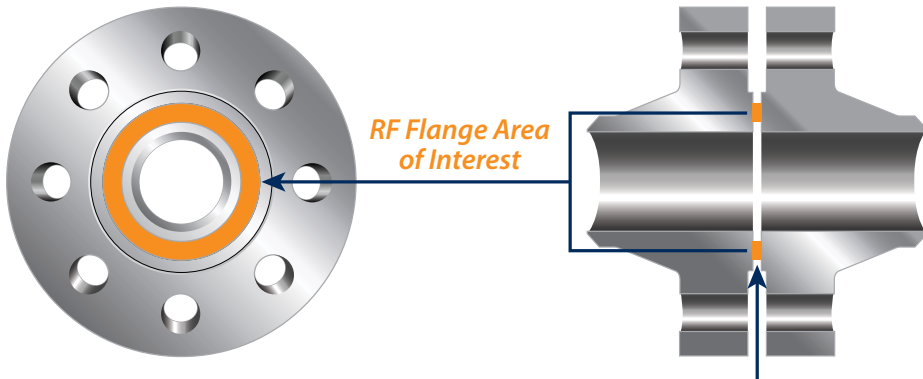
ADVANCED FLANGE EVALUATION BY AN ACUREN EXPERT

- Our Phased Array Ultrasonic Testing (PAUT) technology accurately acquires scan data from a single revolution of the flange
- Ability to scan either one or both connected flanges simultaneously
- Rapid encoded inspection from multiple access points
- Perform services on ferrous and non-ferrous flanges
- Perfect for Rope Access and Ground Solutions
- The entire width of the raised face is inspected to determine corrosion and material loss in Hydrofluoric Acid (HF) Alkylation Units
- Inspect RTJ ring groove flanges for cracking detection
- In-service scanning capability prior to outage programs saves time and money
- Eliminates need to remove bolts or disassemble flanges
- Accurate, repeatable inspections for monitoring known defects in the raised face and internal bore
- Scan the inner diameter of any diameter pipe ranging from 3.5" to 24", as well as ring joints and seal faces
- Acuren inspects all flange sizes from #150 to #2500
- No space limitation due to geometric constraints
- Documentation of the inspection technique used
- Effective process management and secure control of scan data, from acquisition to analysis reporting
- Fully encoded for 100% post inspection analysis and record keeping including RBI assessments

**A HIGHER LEVEL
OF RELIABILITY®**

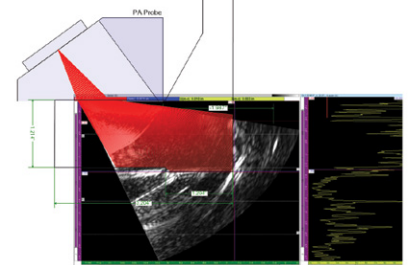
Fast & Cost Effective

Raised Face Flange - Target Area

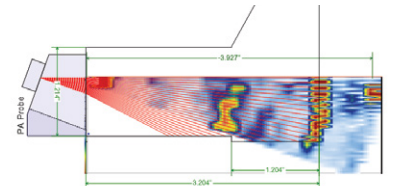


Phased Array Ultrasonic Testing is used to inspect the integrity of the gasket seating surface of raised face flanges without disassembling

Manual Scan



Semi-Auto Encoded Scan



Manual scanning examines the finite sizing of damage, while encoded scanning provides accurate and repeatable inspection. Both results are compared for accuracy.



West 503.652.8878
Midwest 937.228.9729
Gulf Coast 281.228.0000
Southeast 919.875.8240
Northeast 724.228.2155



Pacific 604.275.3800
Western 780.440.2131
Central 519.336.3021
Atlantic 709.753.2100

Through the use of multiple techniques detection of service related damage of HF Alky Flanges can be performed with accuracy and favorable POD (Probability OF Detection) results. This requires the use of specialty transducers and wedges as well as scanning apparatuses and techniques not currently being employed by most ANDE companies performing these inspections. Only through the use of these combined efforts can a suitable client trust in this technique be developed with high levels of accuracy and repeatability to ensure the highest quality exam currently possible.

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BEYOND INSPECTION