



# Ultrasonic Flaw Specimens Kit

## Introduction to Weld Flaws

A set of miniature welds, macro sections and photo-radiographs to demonstrate the principles of flaw detection, flaw interpretation and basic sizing.

- Introduction to weld flaws
- Demonstrate principles of flaw detection
- Demonstrate typical NDT flaw responses
- Demonstrate principles of flaw interpretation
- Basic flaw sizing

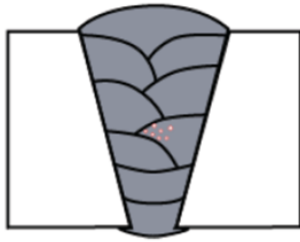
## Kit contents

- 10 miniature flawed specimens
- Flaw location details
- Testing and acceptance criteria
- Photo-radiographs (where applicable) for each specimen
- 5 Plates with two side difference crack welding defect
- Certificate of conformance

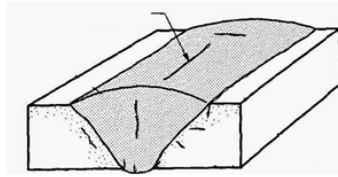
## Materials

- Carbon Steel

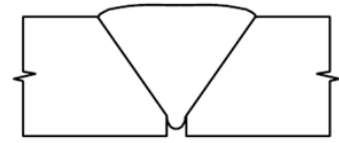




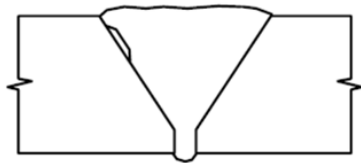
Single Blowhole



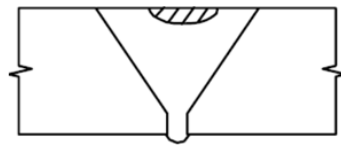
Longitudinal Crack



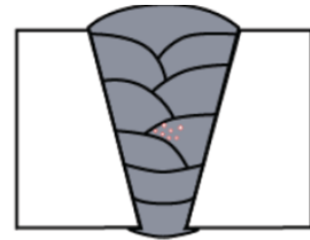
Incomplete Root Penetration in Single Vee (SV)



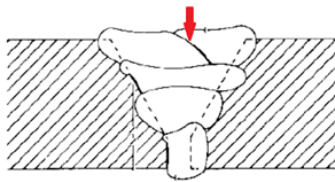
Lack of Sidewall Fusion in Single Vee (SV)



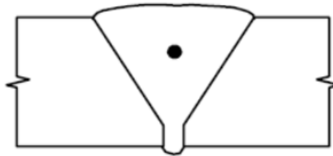
Transverse Crack in Single Vee (SV)



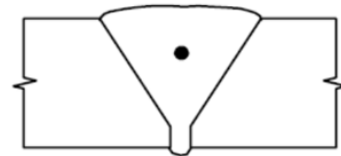
Dense Blowhole



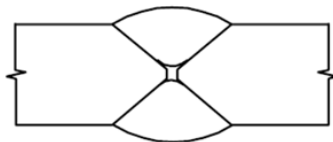
Lack of Inter-run fusion



Strip Slag



Dot Slag



Incomplete Penetration Intermediately

INDIVIDUAL SPECIMENS DIMENSIONS			
Specimen	Thickness (T)(cm)	Width (W)(cm)	Length (L)(cm)
Plate	1	6	12