Cast Iron & Stainless Steel PT Indications - Conversion Chart

| Initial PT Inspection | | Indications | | |
|-----------------------|----------------------|----------------------------------|---|-----------------------|
| Identification | Condition | Inches | mm | Type of Discontinuity |
| Item A | Seasoned Cast Iron | 1 ≥ 1/16" , 2@1/32" | 1 ≥ 1.5875mm,2@0.79375mm | Rounded |
| Item D | Seasoned Cast Iron | 1 @ 1/16" , 4@1/32" | 1@1.5875mm , 4@0.79375mm | Rounded |
| Item B | Unseasoned Cast Iron | 1@1/8",1@3/32", 2@1/16", 7@1/32" | 1@3.175mm, 1@2.38125mm, 2@1.5875mm, 7@0.79375mm | Rounded |
| Item C | Unseasoned Cast Iron | 1@1/8",3@1/16",11@1/32" | 1@3.175mm, 3@1.5875mm, 11@0.79375mm | Rounded |

| Afterwash PT Inspection | | Indications | | |
|-------------------------|--------------------|--------------------------------------|--|-----------------------|
| Identification | Condition | Inches | mm | Type of Discontinuity |
| Item A | Seasoned Cast Iron | 1@1/16" , 2@1/32" , multiple ≤ 1/64" | 1 ≥ 1.5875mm,2@0.79375mm,multiple ≤ 0.396875mm | Rounded |
| Item D | Seasoned Cast Iron | 2@1/32" , multiple ≤ 1/64" | 2@0.79375mm , multiple ≤ 0.396875mm | Rounded |

| PT Inspection | | Indications | | |
|----------------|-----------|--------------------------------------|---|-----------------------|
| Identification | Condition | Inches | mm | Type of Discontinuity |
| SS 1.9 Qt | Brushed | 1 @ 1/2" , 3@3/32" , 2@1/16 , 6@1/32 | 1@12.7mm,3@2.38125mm ,2@1.5875mm ,6@0.79375mm | Rounded |
| SS 3.4 Qt | Brushed | multiple ≤ 1/64" | multiple ≤ 0.396875mm | Rounded |

| Afterwash PT Inspection | | Indications | | |
|-------------------------|-----------|-------------------------------------|---|-----------------------|
| Identification | Condition | Inches | mm | Type of Discontinuity |
| SS 1.9 Qt | Brushed | 1 @1/2" , 2@1/32" ,multiple ≤ 1/64" | 1@12.7mm,2@0.79375mm ,multiple ≤ 0.396875mm | Rounded |
| SS 3.4 Qt | Brushed | multiple ≤ 1/64" | multiple ≤ 0.396875mm | Rounded |

Dye Penetrant Inspection

For Welds and Materials per ASME Section VIII, Appendix 8

Indications with major dimensions greater than 1/16" shall be considered relevant

The following revelevant indications are unacceptable:

All relevant linear indications

Rounded indications greater than 3/16" (4.8mm)

Four or more rounded indications in a line separated by 1/16' (1.6mm) or less edge to edge

For evaluation, the maximum dimension of rounded indications shall be considered as its size.

Indications are rejectable as defects if:

a. Individual indications are $\geq 1/8$ " (3.17mm)

b. Distribution of scattered rounded indication exceed concentration API 1104 (Standard for Welding Pipelines and related facilities)

c. Clustered rounded indications > 1/2" (12.7mm)

d. Combined length of clustered indications > 1/2" in any 12' (304.8mm) weld

e. Any individual indication in a cluster > 1/16" (1.59mm)