REPAIR APPLICATION INDEX SHEET

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FOR FURTHER INFORMATION ON CLOCK SPRING® REPAIR SOLUTIONS CONTACT:
Email: jamesk@clockspringuk.com; akhera@alliedengineer.com
Email: bbaniah@alliedengineer.com
Clock Spring Various Pipeline Repairs Criteria

1- Clock Spring

Length : Standard 11.500" ± 0.500" (292 mm ± 13 mm).
Number of layers : 8 continuous layers regardless of pipeline size.
Defect Size : Up to 80% external metal loss.
Pressure : Unlimited
Size Availability : 4" – 56"
Temperature range : -64ºC < Temperature < 60 °C (Standard Temperature)
                    60ºC < Temperature < 90º C (High Temperature)
Delivery : 1 working week

2- Snap Wrap

Length : Standard 11.50" ± 0.50" (292 mm ± 13 mm).
Number of layers : 8 Individual Split Sleeves for ¾" < Dia<8”
                   4 Individual Split Sleeves for 8”≤ Dia.
Defect Size : Up to 90% external metal loss.
Pressure : Up to 500 PSI
Size Availability : ¾” upwards
Temperature range : -64ºC < Temperature < 90º C
Delivery : 1 working week

3- Pipe Support

Length : Standard 11.50" ± 0.50" (292 mm ± 13 mm).
Number of layers : 2 Individual Split Sleeves regardless of size
Defect Size : Up to 30% external metal loss.
Pressure : Designed as full encirclement wrap to provide wear surface and eliminate crevice corrosion at pipe support interface.
Size Availability : ¾” upwards
Temperature range : -64ºC < Temperature < 90º C
Delivery : 1 working week

4- Leak Stop

Length of Repair : Any length of repair
Number of layers : Application dependent
Defect Size : Holes up to 1” Diameter
Pressure : Tested as part of the AEA program and accepted for use up to 80 bar as a 20 year repair.
Size Availability : 2 part metal Polymer Paste
Temperature range : -64ºC < Temperature < 90º C
Delivery : 1 working week
**CLOCK SPRING**

**Products and Services**

**CLOCK SPRING**
- 50 year DOT approved repair system for high pressure transmission pipelines
- Unidirectional fiberglass polyester or vinyl ester composite repair sleeve
- Restores full strength to pipelines with up to 80% external wall loss
- Available in 4” through 56” diameter kits with coil, filler, adhesive, tools
- Can be applied on bends and girth welds
- Pipelines do not have to be shut down or decreased in pressure
- No hot work, welding or cutting
- Fast and economical
- Temperatures up to 220°F (104°C)

**SNAP WRAP**
- Pipe repair system for lines operating at 500 PSI (34.5 bar) or below
- ¾” through 56” diameter kits with coils, filler, adhesive and installation tools
- Split sleeve design allows for applications with a clearance of less than a ½”
- Restores pipe to full pressure handling capability
- Fast and economical
- No hot work, welding or cutting

**PIPE SUPPORT**
- Heavy duty double sleeve composite wrap
- Full encirclement design eliminates crevice corrosion, provides wear surface
- ¾” through 56” diameter kits with coils, filler, adhesive and installation tools
- Heavy duty double coil composite wrap
- Easy installation with minimum clearance required
- Cures in two hours

**CONTOUR**
- Custom engineered advanced composite repair products
- Non-Woven glass fiber and durable toughened epoxy
- Repair elbows, tees, reducers, and other complex geometries
- Repair of carbon steel, stainless steel, and other pipe materials
- Highly durable and excellent chemical resistance to common process fluids
- Temperature to 275°F (135°C)
- Engineering Design service to ISO TS 24817, ASME PCC R&T, Article 4.1

**INSTALLATION AND TRAINING**
- DOT certified Clock Spring installation training in the field or in the shop
- Monthly DOT certified trainer class at the Clock Spring factory in Houston, Texas
high pressure gas transmission, water lines, hydrocarbons, chemicals, corrosion, leaks, dents, bends, tees, reducers, risers, jetties

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