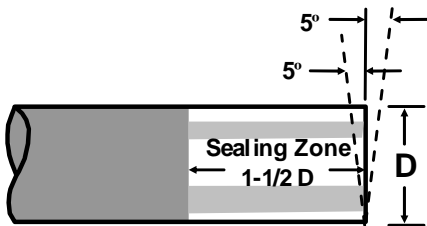


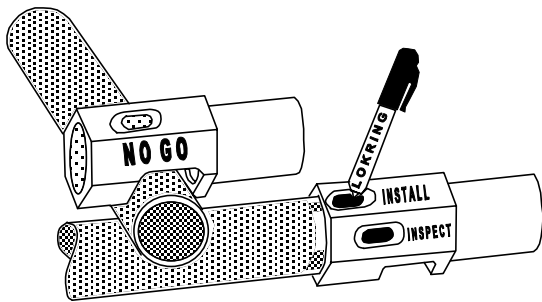
INSTALLATION PROCEDURE

Note: Refer to LOKRING procedures LP-105 or LP-101 for detailed installation instructions

STEP 1: Cut pipe to within 5° square. Using 120 grit Aluminum oxide abrasive cloth, sand pipe sealing zone in circumferential direction to clean surface and remove scratches. If deep pits or scratches persist, use 60 grit, followed by 120 grit.

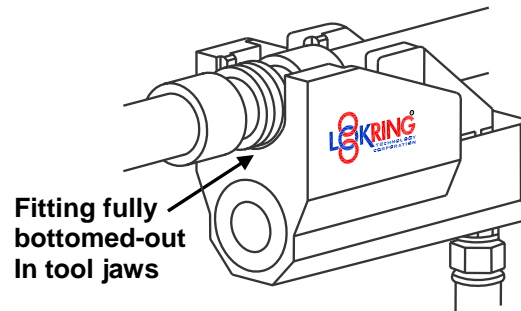
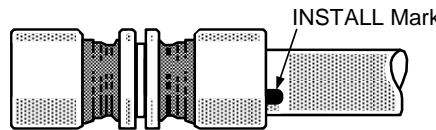
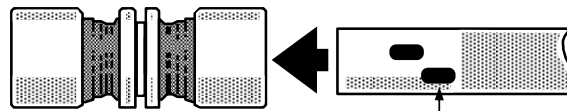


Step 2: Using Multipurpose Gage, verify that pipe OD is correctly sized, and mark pipe ends as shown.



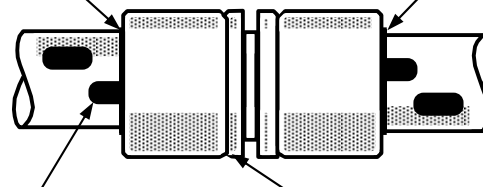
STEP 3: Select and assemble required LOKRING tool. Inspect and cycle tool to assure proper function.

STEP 4: Position fitting on "INSTALL" mark, fully engage and actuate tool.



STEP 5: Carry out visual checks below to verify successful installation.

Fitting body protrudes from underneath swage ring



INSPECT mark partially covered

Small gap is acceptable

LOKRING INSTALLER'S Field Installation Guide

For Series CN-200 90/10
Copper Nickel
LOKRING™ Pipe Fittings

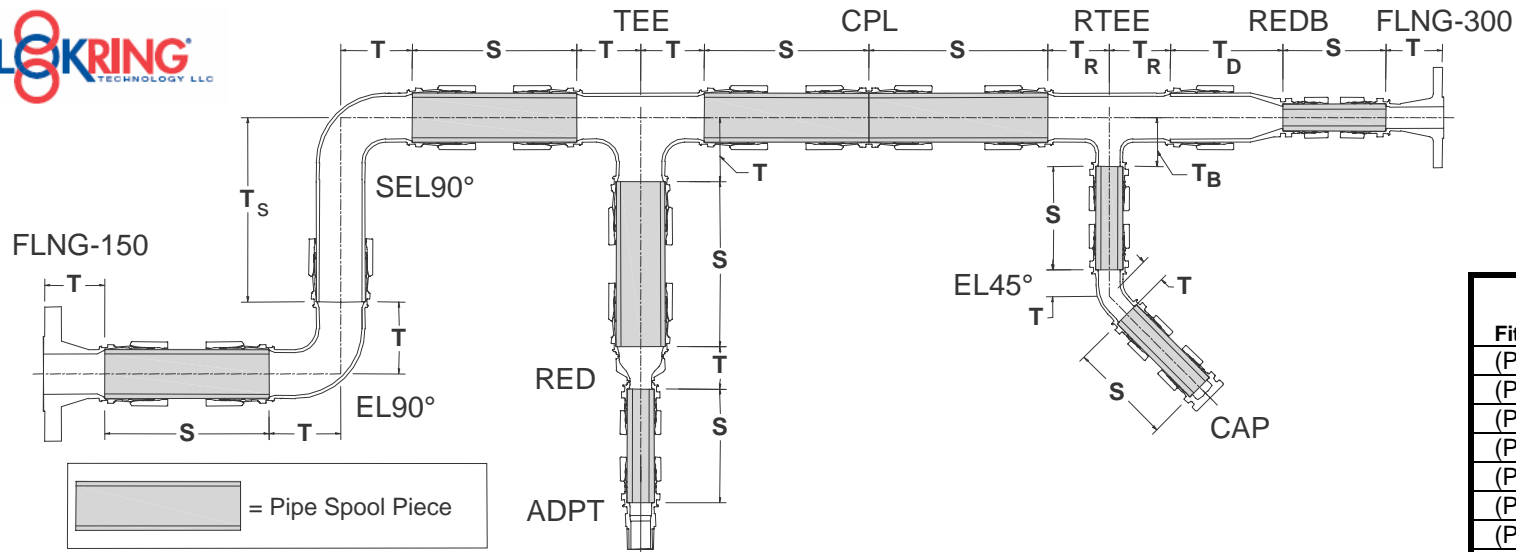


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8.03C Tri-Fold Handout For CN-200 Pipe
Fittings (07-02-09)



Fitting Size	N Minimum Spacing Center to Center	N* Minimum Spacing Center to Center, with fittings adjacent each other
(P04) IT20	1.73	1.85
(P06) IT20	1.83	1.96
(P08) IT20	1.94	2.18
(P12) IT30	2.20	2.45
(P16) IT45	2.98	2.78
(P20) IT45	3.16	3.23
(P24) IT50	3.44	3.61
(P32) IT50	3.73	4.22

		Fitting Take-Out "T" in 1/16" Increments											Reducing Fittings	RTEE T _R	RTEE T _B	REDB T _D
LOKRING Fitting ¹ (NPS)	LOKTOOL Head	"S" Min ²	FLNG 150#	TEE	EL90 (-LR)	EL90 (-SR)	SEL 90 (LR) (T _S)	SEL 90 (LR) (T)	SEL 90 (SR) (T _S)	SEL 90 (SR) (T)	EL45	FLNG 250#				
CN-200-XXX-P04 (1/4" NPS)	IT20	3-1/8"	N/A	1"	N/A	1"	N/A	N/A	N/A	N/A	15/16"	1-1/2"	1/2"x1/4" (P08xP04)	1-1/16"	1-1/16"	2"
CN-200-XXX-P06 (3/8" NPS)	IT20	3-3/8"	N/A	1"	N/A	1"	N/A	N/A	N/A	N/A	7/8"	1-9/16"	1/2"x3/8" (P08xP06)	1-1/16"	1-1/16"	2-1/4"
CN-200-XXX-P08 (1/2" NPS)	IT20	3-13/16"	1-11/16"	1-1/16"	N/A	1-1/16"	N/A	N/A	N/A	N/A	1-1/16"	1-5/8"	3/4"x1/4" (P12xP04)	1-3/16"	1-3/16"	N/A
CN-200-XXX-P12 (3/4" NPS)	IT30	4-5/16"	1-13/16"	1-3/16"	N/A	1-3/16"	N/A	N/A	N/A	N/A	1-1/8"	1-11/16"	3/4"x3/8" (P12xP06)	1-3/16"	1-3/16"	2-3/8"
CN-200-XXX-P16 (1" NPS)	IT45	4-15/16"	1-7/8"	1-1/2"	2"	1-1/2"	10-5/8"	2"	10-1/8"	1-1/2"	1-1/8"	1-13/16"	3/4"x1/2" (P12xP08)	1-3/16"	1-3/16"	2-7/8"
CN-200-XXX-P20 (1-1/4" NPS)	IT45	5-13/16"	1-15/16"	1-3/4"	2-7/16"	1-3/4"	11"	2-7/16"	N/A	N/A	1-3/8"	2-1/16"	1"x1/2" (P16xP08)	1-1/2"	1-5/16"	2-11/16"
CN-200-XXX-P24 (1-1/2" NPS)	IT50	6-9/16"	N/A	2"	2-15/16"	2"	N/A	N/A	10-9/16"	2"	1-5/8"	2-3/16"	1"x3/4" (P16xP12)	1-1/2"	1-1/8"	3-3/16"
CN-200-XXX-P32 (2" NPS)	IT50	7-11/16"	N/A	2-7/16"	3-11/16"	2-7/16"	N/A	N/A	N/A	N/A	1-15/16"	2-3/16"	1-1/4"x1/4" (P20xP04)	1-7/8"	1-7/8"	N/A
													1-1/4"x1/2" (P20xP08)	1-7/8"	1-1/2"	N/A
													1-1/4"x3/4" (P20xP12)	1-7/8"	1-5/16"	3-5/16"
													1-1/4"x1" (P20xP16)	1-7/8"	1-5/16"	3-7/16"
													1-1/2"x1/2" (P24xP08)	2-1/4"	1-5/8"	N/A
													1-1/2"x3/4" (P24xP12)	2-1/4"	1-7/16"	N/A
													1-1/2"x1" (P24xP16)	2-1/4"	1-13/16"	4"
													1-1/2"x1-1/4" (P24xP20)	2-1/4"	1-1/2"	3-7/8"
													2"x1/2" (P32xP08)	2-1/2"	1-7/8"	N/A
													2"x3/4" (P32xP12)	2-1/2"	1-11/16"	N/A
													2"x1" (P32xP16)	2-1/2"	2"	4-3/16"
													2"x1-1/4" (P32xP20)	2-1/2"	2-3/16"	4-5/8"
													2"x1-1/2" (P32xP24)	2-1/2"	2"	3-13/16"

1. Copper pipe to MIL-T-24107 and 90/10 copper nickel pipe to MIL-T-16420.
 2. Minimum cut spool length "S" listed is for reverse installation. Spool lengths may be decreased slightly if one fitting end can be pulled up prior to positioning the second end and the reverse position of the tool is used for the installation.