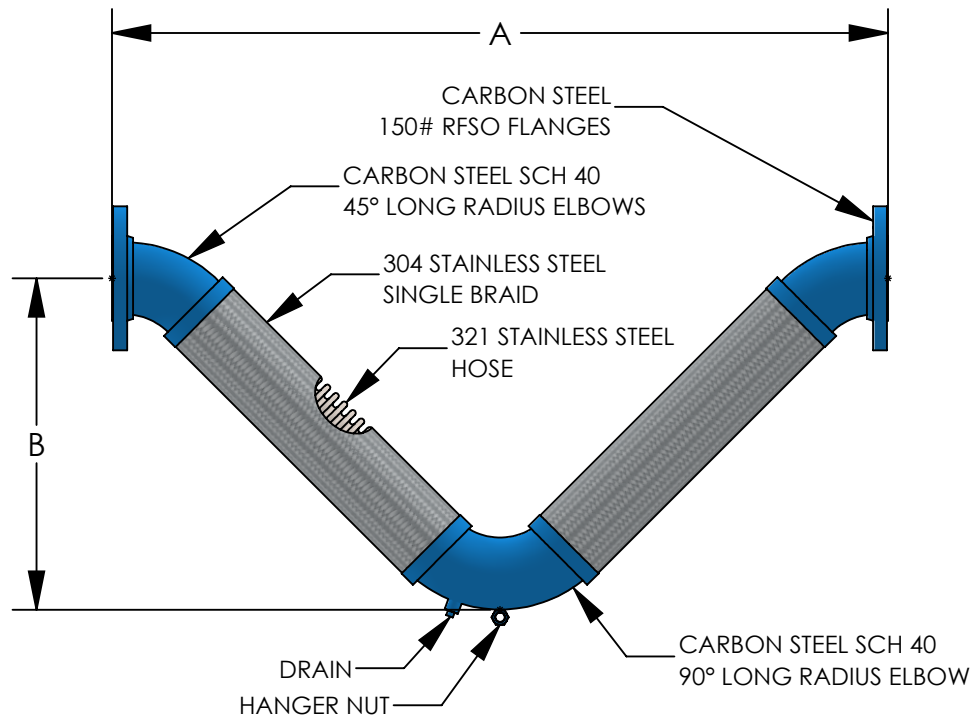




TEMP (°F)	FACTOR
70	1.00
150	0.97
200	0.94
300	0.88
400	0.83
500	0.78
600	0.77
1000	0.60
1400	0.42

NOTE: 5/8"-11 HANGER NUTS
INSTALLED ON ALL LOOPS
2 1/2" AND UP.
ALL LOOPS INCLUDE 3/8"
NPT DRAIN/AIR RELEASE PLUG

CONTACT FACTORY FOR ADDITIONAL SIZES AND MOVEMENTS. ALL UNITS IN INCHES UNLESS NOTED.

QTY.	PART NO.	SIZE	A	B	MVMT	SPRING RATE (LBS/IN)	PSI @ 70°F*		WT (LBS)
							SINGLE	DOUBLE	
	LOOPVF40200	2	26 3/8	11 1/4	±2	40	516	826	15
	LOOPVF40250	2 1/2	31 7/8	13 3/8	±2	42	387	619	23
	LOOPVF40300	3	34 5/8	14 1/2	±2	46	316	506	28
	LOOPVF40400	4	40 5/8	16 3/4	±2	60	232	371	43
	LOOPVF40500	5	46 3/8	18 7/8	±2	94	191	306	64
	LOOPVF40600	6	52 1/2	21	±2	102	165	264	89
	LOOPVF40800	8	62 5/8	24 3/8	±2	130	234	374	175
	LOOPVF41000	10	74 1/8	28 1/2	±2	142	230	367	271
	LOOPVF41200	12	85 5/8	32 1/2	±2	195	160	257	392

*HOSE AND BRAID MAXIMUM WORKING PRESSURE RATING. FOR PRESSURE RATINGS AT OTHER TEMPERATURES, CONSULT THE CORRECTION FACTOR TABLE ABOVE. LOOPS FOR STEAM APPLICATIONS WILL BE DOUBLE BRAIDED BUT USE THE SINGLE BRAIDED PRESSURE RATING. LOOPS FOR STEAM APPLICATIONS SHOULD BE INSTALLED HORIZONTALLY TO PREVENT CONDENSATE BUILD UP. CONTACT FACTORY FOR FURTHER INFORMATION.



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PROPOSAL/INQUIRY/ORDER NO:

CUSTOMER NAME:

PROJECT NAME:

CONTRACTOR:

ML V EXPANSION LOOP

150# RFSO FLANGE ENDS, ±2" MOVEMENT

DRAWN BY: JULIANH

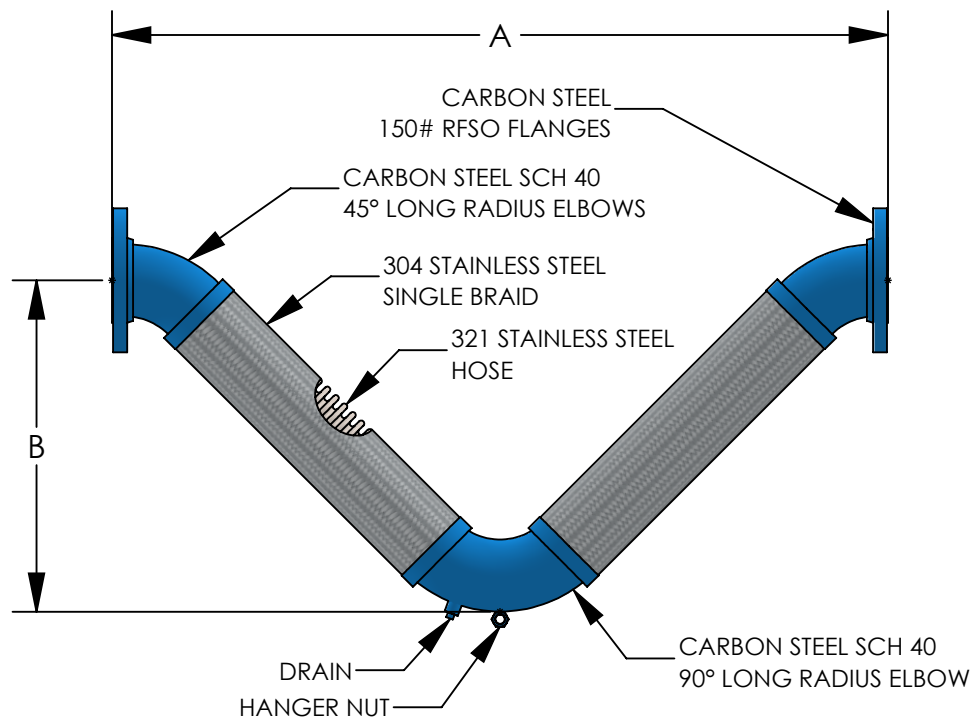
DATE: 04/07/2026

APPROVED BY:

DATE:

DRAWING NO:

LOOPVF4



TEMP (°F)	FACTOR
70	1.00
150	0.97
200	0.94
300	0.88
400	0.83
500	0.78
600	0.77
1000	0.60
1400	0.42

NOTE: 5/8"-11 HANGER NUTS
INSTALLED ON ALL LOOPS
2 1/2" AND UP.
ALL LOOPS INCLUDE 3/8"
NPT DRAIN/AIR RELEASE PLUG

CONTACT FACTORY FOR ADDITIONAL SIZES AND MOVEMENTS. ALL UNITS IN INCHES UNLESS NOTED.

QTY.	PART NO.	SIZE	A	B	MVMT	SPRING RATE (LBS/IN)	PSI @ 70°F*		WT (LBS)
							SINGLE	DOUBLE	
	LOOPVF80200	2	32 1/4	14 1/4	±4	20	516	826	16
	LOOPVF80250	2 1/2	38 3/4	16 7/8	±4	21	387	619	24
	LOOPVF80300	3	41 7/8	18 1/8	±4	23	316	506	30
	LOOPVF80400	4	48 1/2	20 3/4	±4	30	232	371	46
	LOOPVF80500	5	54 7/8	23 1/8	±4	47	191	306	68
	LOOPVF80600	6	61 5/8	25 5/8	±4	51	165	264	95
	LOOPVF80800	8	72 1/8	29 1/8	±4	65	234	374	186
	LOOPVF81000	10	84 7/8	33 7/8	±4	96	230	367	287
	LOOPVF81200	12	97 3/8	38 7/8	±4	98	160	257	412

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PROJECT NAME:

CONTRACTOR:

ML V EXPANSION LOOP

150# RFSO FLANGE ENDS, ±4" MOVEMENT

DRAWN BY: JULIANH

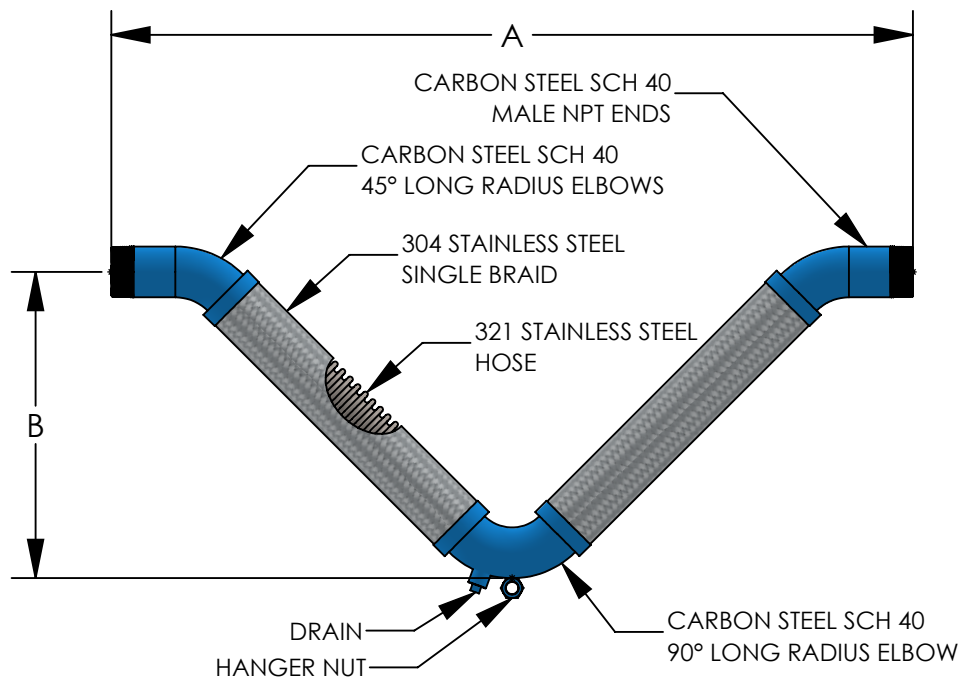
DATE: 04/07/2026

APPROVED BY:

DATE:

DRAWING NO:

LOOPVF8



TEMP (°F)	FACTOR
70	1.00
150	0.97
200	0.94
300	0.88
400	0.83
500	0.78
600	0.77
1000	0.60
1400	0.42

NOTE: 5/8"-11 HANGER NUTS
INSTALLED ON ALL LOOPS
2 1/2" AND UP.
ALL LOOPS INCLUDE 3/8"
NPT DRAIN/AIR RELEASE PLUG

CONTACT FACTORY FOR ADDITIONAL SIZES AND MOVEMENTS. ALL UNITS IN INCHES UNLESS NOTED.

QTY.	PART NO.	SIZE	A	B	MVMT	SPRING RATE (LBS/IN)	PSI @ 70°F*		WT (LBS)
							SINGLE	DOUBLE	
	LOOPVT40050	1/2	21 1/8	6 3/4	±2	23	1075	1720	2
	LOOPVT40075	3/4	23 1/4	7 3/4	±2	24	792	1267	3
	LOOPVT40100	1	24 3/8	8 3/8	±2	27	571	914	4
	LOOPVT40125	1 1/4	26 1/8	9 1/8	±2	33	531	850	5
	LOOPVT40150	1 1/2	28	9 7/8	±2	35	472	755	6
	LOOPVT40200	2	31 3/8	11 1/4	±2	39	516	826	9
	LOOPVT40250	2 1/2	36 5/8	13 3/8	±2	42	387	619	15
	LOOPVT40300	3	39 1/4	14 1/2	±2	45	316	506	20
	LOOPVT40400	4	47	16 3/4	±2	60	232	371	32

*HOSE AND BRAID MAXIMUM WORKING PRESSURE RATING. FOR PRESSURE RATINGS AT
OTHER TEMPERATURES, CONSULT THE CORRECTION FACTOR TABLE ABOVE. MALE NPT
FITTINGS ARE NOT RECOMMENDED FOR STEAM APPLICATIONS.



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CUSTOMER NAME:

PROJECT NAME:

CONTRACTOR:

ML V EXPANSION LOOP

MALE THREAD ENDS, ±2" MOVEMENT

DRAWN BY: JULIANH

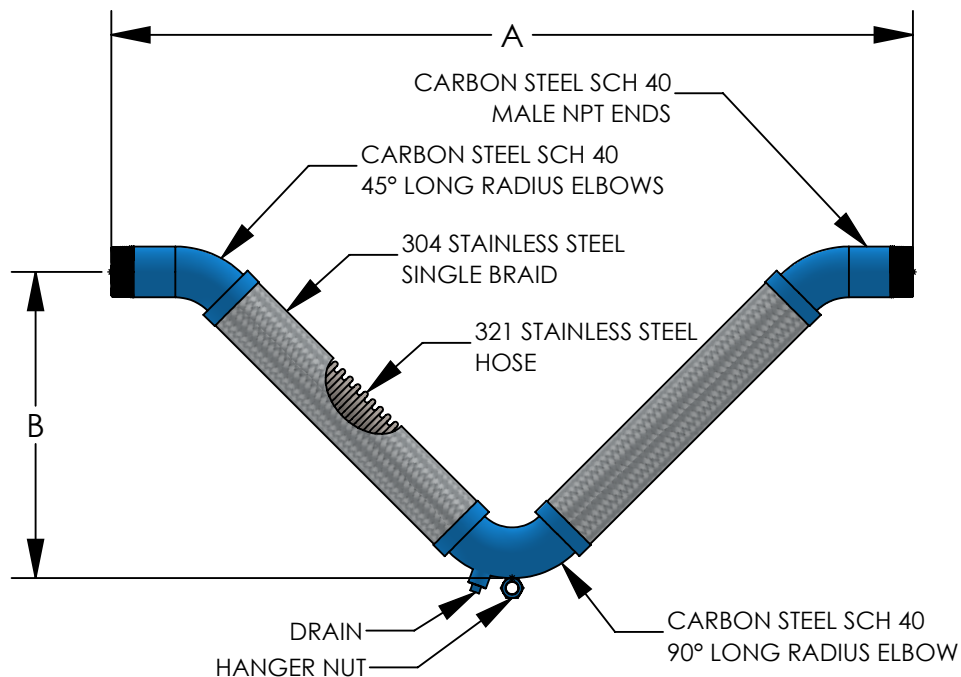
DATE: 04/07/2026

APPROVED BY:

DATE:

DRAWING NO:

LOOPVT4



TEMP (°F)	FACTOR
70	1.00
150	0.97
200	0.94
300	0.88
400	0.83
500	0.78
600	0.77
1000	0.60
1400	0.42

NOTE: 5/8"-11 HANGER NUTS
INSTALLED ON ALL LOOPS
2 1/2" AND UP.
ALL LOOPS INCLUDE 3/8"
NPT DRAIN/AIR RELEASE PLUG

CONTACT FACTORY FOR ADDITIONAL SIZES AND MOVEMENTS. ALL UNITS IN INCHES UNLESS NOTED.

QTY.	PART NO.	SIZE	A	B	MVMT	SPRING RATE (LBS/IN)	PSI @ 70°F*		WT (LBS)
							SINGLE	DOUBLE	
	LOOPVT80050	1/2	25	8 3/4	±4	12	1075	1720	2
	LOOPVT80075	3/4	27 3/4	10	±4	12	792	1267	3
	LOOPVT80100	1	29	10 3/4	±4	14	571	914	4
	LOOPVT80125	1 1/4	31 1/4	11 5/8	±4	17	531	850	6
	LOOPVT80150	1 1/2	33 3/8	12 1/2	±4	18	472	755	7
	LOOPVT80200	2	37 1/4	14 1/4	±4	20	516	826	10
	LOOPVT80250	2 1/2	43 1/2	16 7/8	±4	21	387	619	16
	LOOPVT80300	3	46 1/2	18 1/8	±4	23	316	506	22
	LOOPVT80400	4	54 7/8	20 3/4	±4	30	232	371	35

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PROPOSAL/INQUIRY/ORDER NO:

CUSTOMER NAME:

PROJECT NAME:

CONTRACTOR:

ML V EXPANSION LOOP

MALE THREAD ENDS, ±4" MOVEMENT

DRAWN BY: JULIANH

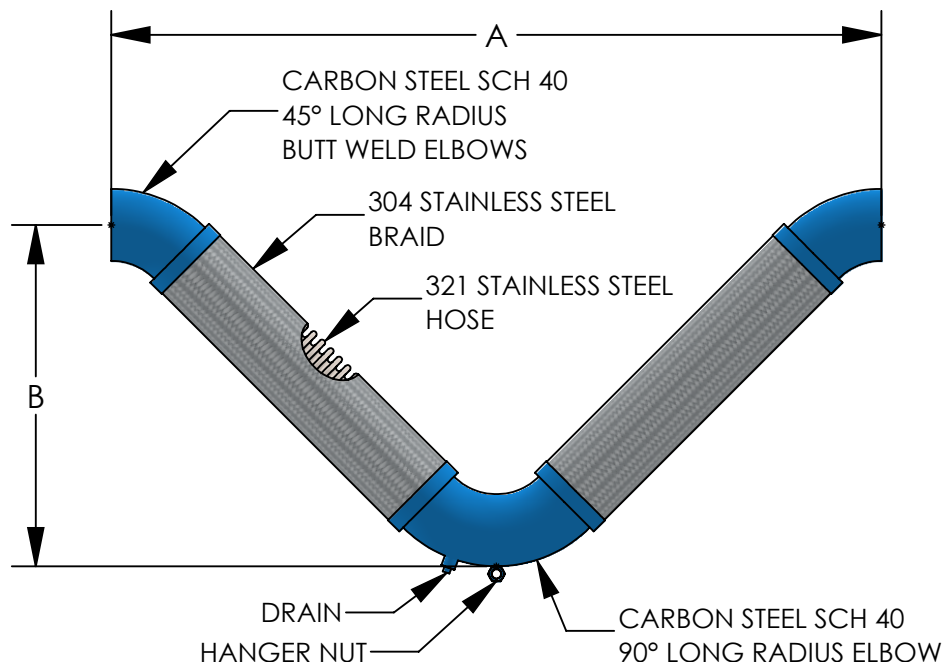
DATE: 04/07/2026

APPROVED BY:

DATE:

DRAWING NO:

LOOPVT8



TEMP (°F)	FACTOR
70	1.00
150	0.97
200	0.94
300	0.88
400	0.83
500	0.78
600	0.77
1000	0.60
1400	0.42

NOTE: 5/8"-11 HANGER NUTS
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NPT DRAIN/AIR RELEASE PLUG

CONTACT FACTORY FOR ADDITIONAL SIZES AND MOVEMENTS. ALL UNITS IN INCHES UNLESS NOTED.

QTY.	PART NO.	SIZE	A	B	MVMT	SPRING RATE (LBS/IN)	PSI @ 70°F*		WT (LBS)
							SINGLE	DOUBLE	
	LOOPVW40050	1/2	15 1/8	6 3/4	±2	23	1075	1720	2
	LOOPVW40075	3/4	17 1/4	7 3/4	±2	24	792	1267	2
	LOOPVW40100	1	18 3/8	8 3/8	±2	27	571	914	3
	LOOPVW40125	1 1/4	20 1/8	9 1/8	±2	33	531	850	4
	LOOPVW40150	1 1/2	22	9 7/8	±2	35	472	755	5
	LOOPVW40200	2	25 3/8	11 1/4	±2	39	516	826	7
	LOOPVW40250	2 1/2	30 5/8	13 3/8	±2	42	387	619	12
	LOOPVW40300	3	33 1/4	14 1/2	±2	45	316	506	16
	LOOPVW40400	4	39	16 3/4	±2	60	232	371	27
	LOOPVW40500	5	44 1/2	18 7/8	±2	93	191	306	43
	LOOPVW40600	6	50 3/8	21	±2	101	165	264	66
	LOOPVW40800	8	60 1/8	24 3/8	±2	130	234	374	130
	LOOPVW41000	10	71 1/4	28 1/2	±2	142	230	367	218
	LOOPVW41200	12	82 1/4	32 1/2	±2	195	160	257	310

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PROJECT NAME:

CONTRACTOR:

ML V EXPANSION LOOP

WELD ENDS, ±2" MOVEMENT

DRAWN BY: JULIANH

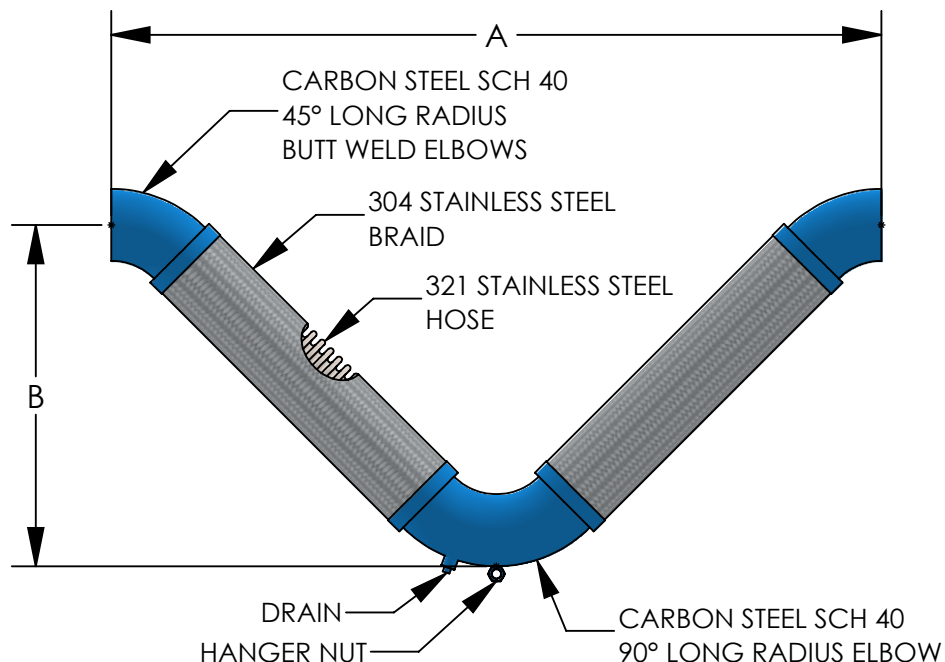
DATE: 04/03/2026

APPROVED BY:

DATE:

DRAWING NO:

LOOPVW4



TEMP (°F)	FACTOR
70	1.00
150	0.97
200	0.94
300	0.88
400	0.83
500	0.78
600	0.77
1000	0.60
1400	0.42

NOTE: 5/8"-11 HANGER NUTS
INSTALLED ON ALL LOOPS
2 1/2" AND UP.
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NPT DRAIN/AIR RELEASE PLUG

CONTACT FACTORY FOR ADDITIONAL SIZES AND MOVEMENTS. ALL UNITS IN INCHES UNLESS NOTED.

QTY.	PART NO.	SIZE	A	B	MVMT	SPRING RATE (LBS/IN)	PSI @ 70°F*		WT (LBS)
							SINGLE	DOUBLE	
	LOOPVW80050	1/2	19	8 3/4	±4	12	1075	1720	2
	LOOPVW80075	3/4	21 3/4	10	±4	12	792	1267	2
	LOOPVW80100	1	23	10 3/4	±4	14	571	914	3
	LOOPVW80125	1 1/4	25 1/4	11 5/8	±4	17	531	850	4
	LOOPVW80150	1 1/2	27 3/8	12 1/2	±4	18	472	755	6
	LOOPVW80200	2	31 1/4	14 1/4	±4	20	516	826	8
	LOOPVW80250	2 1/2	37 1/2	16 7/8	±4	21	387	619	14
	LOOPVW80300	3	40 1/2	18 1/8	±4	23	316	506	18
	LOOPVW80400	4	46 7/8	20 3/4	±4	30	232	371	30
	LOOPVW80500	5	53	23 1/8	±4	47	191	306	47
	LOOPVW80600	6	59 1/2	25 5/8	±4	51	165	264	72
	LOOPVW80800	8	69 7/8	29 1/8	±4	65	234	374	141
	LOOPVW81000	10	82	33 7/8	±4	71	230	367	234
	LOOPVW81200	12	94	38 7/8	±4	98	160	257	330

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PROJECT NAME:

CONTRACTOR:

ML V EXPANSION LOOP

WELD ENDS, ±4" MOVEMENT

DRAWN BY: JULIANH

DATE: 04/03/2026

APPROVED BY:

DATE:

DRAWING NO:

LOOPVW8