



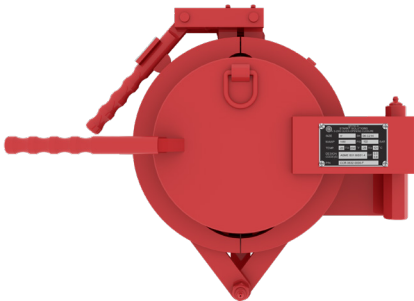
# S-2000 CLAMP RING QUICK OPENING CLOSURE

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## PART GUIDE

# S-2000 CLAMP RING QUICK OPENING CLOSURE

The S-2000 Clamp Ring Closure is manufactured primarily for pipeline applications ranging from 2" to 48" (DN50 to DN1200) in diameter. We understand the variety of needs that pipeline applications require and as a standard, all closures are certified to ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II with a 0.5/0.6 design factor. High quality components placed in user-friendly locations and features that keep safety priority, and the operator in focus makes the S-2000 an appealing Clamp Style Closure option.

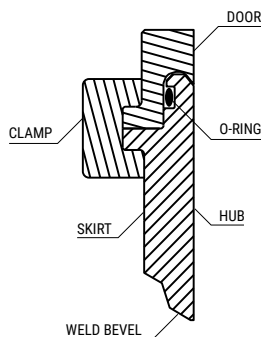


## BENEFITS:

- Certified to ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II
- 1480 M.A.W.P with 0.5 & 0.6 Design Factor
- Large cross section O-Ring design provides positive seal and protection from tools and debris
- Pressure Alert Valve design without need for O-Ring
- Through bores on all wall thicknesses

## STANDARDS:

- Door designed per ASME BPVC VIII Div. 1, U-Stamp compliant
- Pressure Alert Valve per UG-35.2 of ASME BPVC VIII Div. 1
- Clamp screw opening assist and door load binder assist on 34" to 48" (DN850 to DN1200) closures
- Nace MR0175 compliant material
- -50° to + 400°F (-45° to 204°C)
- Viton O-Ring supplied with closure



## OPTIONS:

- Flanged Closure – welded connection
- ASME BPVC VIII Div. 1 with U-Stamp for door only or full closure
- Screw opening assist and load binder on 24" to 32" closures (DN600 to DN800) closures
- Custom wall thickness, vents, and other modifications
- Special Materials and O-Rings

# S-2000 Clamp Ring Closure 2" to 18"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II (Closure or Hub)
- ASME BPVC SEC. VIII Div. 1 U-STAMP (Door)

- Maximum test pressure is 1.5 times design pressure
- \*Full M.A.W.P. with DF 0.5 and/or 0.6 cannot be met, please consult factory for max. pressure per DF

NOTICE: See table on page 6 for common O-Ring options.  
Specialty O-Rings available for order upon request.

DIMENSIONS AND WEIGHTS		
SIZE	WT (LBS)	H x W x L
2"	51	10" x 13" x 6"
3"	51	10" x 13" x 6"
4"	42	10" x 13" x 6"
6"	57	13" x 17" x 7"
8"	89	16" x 30" x 7"
10"	136	19" x 21" x 8"
12"	217	22" x 26" x 9"
14"	248	24" x 28" x 9"
16"	445	28" x 33" x 10"
18"	571	30" x 36" x 11"

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	CLOSURE = ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II		HUB = ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II DOOR = U-STAMP ON DOOR WITH U-2A REPORT	
		Horizontal Right Handed Series 600	Horizontal Left Handed Series 600	Horizontal Right Handed Series 600	Horizontal Left Handed Series 600
		M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 1480PSI
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
2"	0.154" / STD	CCR-0232-0154-S	CCL-0232-0154-S	CCR-0232-0154-D	CCL-0232-0154-D
2"	0.218" / XH	CCR-0232-0218-S	CCL-0232-0218-S	CCR-0232-0218-D	CCL-0232-0218-D
2"	Flanged	CCR-0232-0000-F	CCL-0232-0000-F	CCR-0232-0000-F	CCL-0232-0000-F
3"	0.216" / STD	CCR-0332-0216-S	CCL-0332-0216-S	CCR-0332-0216-D	CCL-0332-0216-D
3"	0.330" / XH	CCR-0332-0330-S	CCL-0332-0330-S	CCR-0332-0330-D	CCL-0332-0330-D
3"	Flanged	CCR-0332-0000-F	CCL-0332-0000-F	CCR-0332-0000-F	CCL-0332-0000-F
4"	0.237" / STD	CCR-0432-0237-S	CCL-0432-0237-S	CCR-0432-0237-D	CCL-0432-0237-D
4"	0.337" / XH	CCR-0432-0337-S	CCL-0432-0337-S	CCR-0432-0337-D	CCL-0432-0337-D
4"	Flanged	CCR-0432-0000-F	CCL-0432-0000-F	CCR-0432-0000-F	CCL-0432-0000-F
6"	0.280" / STD	CCR-0632-0280-S	CCL-0632-0280-S	CCR-0632-0280-D	CCL-0632-0280-D
6"	0.432" / XH	CCR-0632-0432-S	CCL-0632-0432-S	CCR-0632-0432-D	CCL-0632-0432-D
6"	Flanged	CCR-0632-0000-F	CCL-0632-0000-F	CCR-0632-0000-F	CCL-0632-0000-F
8"	0.322" / STD	CCR-0832-0322-S	CCL-0832-0322-S	CCR-0832-0322-D	CCL-0832-0322-D
8"	0.500" / XH	CCR-0832-0500-S	CCL-0832-0500-S	CCR-0832-0500-D	CCL-0832-0500-D
8"	Flanged	CCR-0832-0000-F	CCL-0832-0000-F	CCR-0832-0000-F	CCL-0832-0000-F
10"	0.365" / STD	CCR-1032-0365-S	CCL-1032-0365-S	CCR-1032-0365-D	CCL-1032-0365-D
10"	0.500" / XH	CCR-1032-0500-S	CCL-1032-0500-S	CCR-1032-0500-D	CCL-1032-0500-D
10"	Flanged	CCR-1032-0000-F	CCL-1032-0000-F	CCR-1032-0000-F	CCL-1032-0000-F
12"	0.375" / STD	CCR-1232-0375-S	CCL-1232-0375-S	CCR-1232-0375-D	CCL-1232-0375-D
12"	0.500" / XH	CCR-1232-0500-S	CCL-1232-0500-S	CCR-1232-0500-D	CCL-1232-0500-D
12"	Flanged	CCR-1232-0000-F	CCL-1232-0000-F	CCR-1232-0000-F	CCL-1232-0000-F
14"	0.375" / STD	CCR-1432-0375-S	CCL-1432-0375-S	CCR-1432-0375-D	CCL-1432-0375-D
14"	0.500" / XH	CCR-1432-0500-S	CCL-1432-0500-S	CCR-1432-0500-D	CCL-1432-0500-D
14"	Flanged	CCR-1432-0000-S	CCL-1432-0000-S	CCR-1432-0000-F	CCL-1432-0000-F
16"	0.375" / STD	CCR-1633-0375-S	CCL-1633-0375-S	CCR-1633-0375-D	CCL-1633-0375-D
16"	0.500" / XH	CCR-1633-0500-S	CCL-1633-0500-S	CCR-1633-0500-D	CCL-1633-0500-D
16"	Flanged	CCR-1633-0000-F	CCL-1633-0000-F	CCR-1633-0000-F	CCL-1633-0000-F
18"	0.375" / STD	CCR-1833-0375-S	CCL-1833-0375-S	CCR-1833-0375-D	CCL-1833-0375-D
18"	0.500" / XH	CCR-1833-0500-S	CCL-1833-0500-S	CCR-1833-0500-D	CCL-1833-0500-D
18"	Flanged	CCR-1833-0000-F	CCL-1833-0000-F	CCR-1833-0000-F	CCL-1833-0000-F

## S-2000 Clamp Ring Closure 20" to 30"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II (Closure or Hub)
- ASME BPVC SEC. VIII Div. 1 U-STAMP (Door)

- Maximum test pressure is 1.5 times design pressure
- \*Full M.A.W.P. with DF 0.5 and/or 0.6 cannot be met, please consult factory for max. pressure per DF

DIMENSIONS AND WEIGHTS		
SIZE	WT (LBS)	H x W x L
20"	697	33" x 39" x 12"
22"	901	36" x 42" x 12"
24"	1106	39" x 45" x 13"
26"	1387	42" x 48" x 14"
28"	1668	45" x 51" x 15"
30"	1948	48" x 55" x 16"

NOTICE: See table on page 6 for common O-Ring options.  
Specialty O-Rings available for order upon request.

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	CLOSURE = ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II		HUB = ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II DOOR = U-STAMP ON DOOR WITH U-2A REPORT	
		Horizontal Right Handed Series 600	Horizontal Left Handed Series 600	Horizontal Right Handed Series 600	Horizontal Left Handed Series 600
		M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 1480PSI
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
20"	0.375" / STD	CCR-2034-0375-S	CCL-2034-0375-S	CCR-2034-0375-D	CCL-2034-0375-D
20"	0.500" / XH	CCR-2034-0500-S	CCL-2034-0500-S	CCR-2034-0500-D	CCL-2034-0500-D
20"	Flanged	CCR-2034-0000-F	CCL-2034-0000-F	CCR-2034-0000-F	CCL-2034-0000-F
22"	0.375" / STD	CCR-2234-0375-S	CCL-2234-0375-S	CCR-2234-0375-D	CCL-2234-0375-D
22"	0.500" / XH	CCR-2234-0500-S	CCL-2234-0500-S	CCR-2234-0500-D	CCL-2234-0500-D
22"	Flanged	CCR-2234-0000-F	CCL-2234-0000-F	CCR-2234-0000-F	CCL-2234-0000-F
24"	0.375" / STD	CCR-2434-0375-S	CCL-2434-0375-S	CCR-2434-0375-S	CCL-2434-0375-S
24"	0.500"	CCR-2434-0500-S	CCL-2434-0500-S	CCR-2434-0500-D	CCL-2434-0500-D
24"	0.625"	CCR-2434-0625-S	CCL-2434-0625-S	CCR-2434-0625-D	CCL-2434-0625-D
24"	0.750"	CCR-2434-0750-S	CCL-2434-0750-S	CCR-2434-0750-D	CCL-2434-0750-D
24"	Flanged	CCR-2434-0000-F	CCL-2434-0000-F	CCR-2434-0000-F	CCL-2434-0000-F
26"	0.375" / STD	CCR-2633-0375-P*	CCL-2633-0375-P*	CCR-2633-0375-P*	CCL-2633-0375-P*
26"	0.500"	CCR-2633-0500-S	CCL-2633-0500-S	CCR-2633-0500-D	CCL-2633-0500-D
26"	0.625"	CCR-2633-0625-S	CCL-2633-0625-S	CCR-2633-0625-D	CCL-2633-0625-D
26"	0.750"	CCR-2633-0750-S	CCL-2633-0750-S	CCR-2633-0750-D	CCL-2633-0750-D
26"	Flanged	CCR-2633-0000-F	CCL-2633-0000-F	CCR-2633-0000-F	CCL-2633-0000-F
28"	0.375" / STD	CCR-2833-0375-P*	CCL-2833-0375-P*	CCR-2833-0375-P*	CCL-2833-0375-P*
28"	0.500"	CCR-2834-0500-S	CCL-2834-0500-S	CCR-2834-0500-D	CCL-2834-0500-D
28"	0.625"	CCR-2833-0625-S	CCL-2833-0625-S	CCR-2833-0625-D	CCL-2833-0625-D
28"	0.750"	CCR-2833-0750-S	CCL-2833-0750-S	CCR-2833-0750-D	CCL-2833-0750-D
28"	Flanged	CCR-2833-0000-F	CCL-2833-0000-F	CCR-2833-0000-F	CCL-2833-0000-F
30"	0.375"	CCR-3035-0375-P*	CCL-3035-0375-P*	CCR-3035-0375-P*	CCL-3035-0375-P*
30"	0.500"	CCR-3035-0500-S	CCL-3035-0500-S	CCR-3035-0500-D	CCL-3035-0500-D
30"	0.625"	CCR-3033-0625-S	CCL-3033-0625-S	CCR-3033-0625-D	CCL-3033-0625-D
30"	0.750"	CCR-3033-0750-S	CCL-3033-0750-S	CCR-3033-0750-D	CCL-3033-0750-D
30"	0.875"	CCR-3033-0875-S	CCL-3033-0875-S	CCR-3033-0875-D	CCL-3033-0875-D
30"	Flanged	CCR-3033-0000-F	CCL-3033-0000-F	CCR-3033-0000-F	CCL-3033-0000-F

## S-2000 Clamp Ring Closure 36" to 48"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II (Closure or Hub)
- ASME BPVC SEC. VIII Div. 1 U-STAMP (Door)

DIMENSIONS AND WEIGHTS		
SIZE	WT (LBS)	H x W x L
36"	3327	57" x 60" x 18"
42"	4340	66" x 70" x 21"
48"	5354	75" x 79" x 24"

- Maximum test pressure is 1.5 times design pressure
- \*Full M.A.W.P. with DF 0.5 and/or 0.6 cannot be met, please consult factory for max. pressure per DF

NOTICE: See table on page 6 for common O-Ring options.  
Specialty O-Rings available for order upon request.

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	CLOSURE = ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II		HUB = ASME B31.3/B31.4/B31.8/CSA Z662 Cat. II DOOR = U-STAMP ON DOOR WITH U-2A REPORT	
		Horizontal Right Handed Series 600 M.A.W.P at DF (0.5/0.6): 1480PSI	Horizontal Left Handed Series 600 M.A.W.P at DF (0.5/0.6): 1480PSI	Horizontal Right Handed Series 600 M.A.W.P at DF (0.5/0.6): 1480PSI	Horizontal Left Handed Series 600 M.A.W.P at DF (0.5/0.6): 1480PSI
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
36"	0.375" / STD	CCR-3635-0375-P*	CCL-3635-0375-P*	CCR-3635-0375-P*	CCL-3635-0375-P*
36"	0.500"	CCR-3635-0500-P*	CCL-3635-0500-P*	CCR-3635-0500-P*	CCL-3635-0500-P*
36"	0.625"	CCR-3633-0625-S	CCL-3633-0625-S	CCR-3633-0625-D	CCL-3633-0625-D
36"	0.750"	CCR-3633-0750-S	CCL-3633-0750-S	CCR-3633-0750-D	CCL-3633-0750-D
36"	0.875"	CCR-3633-0875-S	CCL-3633-0875-S	CCR-3633-0875-D	CCL-3633-0875-D
36"	Flanged	CCR-3633-0000-F	CCL-3633-0000-F	CCR-3633-0000-F	CCL-3633-0000-F
42"	0.375" / STD	CCR-4235-0375-P*	CCL-4235-0375-P*	CCR-4235-0375-P*	CCL-4235-0375-P*
42"	0.500"	CCR-4235-0500-P*	CCL-4235-0500-P*	CCR-4235-0500-P*	CCL-4235-0500-P*
42"	0.625"	CCR-4235-0625-S	CCL-4235-0625-S	CCR-4235-0625-D	CCL-4235-0625-D
42"	0.750"	CCR-4233-0750-S	CCL-4233-0750-S	CCR-4233-0750-D	CCL-4233-0750-D
42"	0.875"	CCR-4233-0875-S	CCL-4233-0875-S	CCR-4233-0875-D	CCL-4233-0875-D
42"	1.000"	CCR-4233-1000-S	CCL-4233-1000-S	CCR-4233-1000-D	CCL-4233-1000-D
42"	Flanged	CCR-4233-0000-F	CCL-4233-0000-F	CCR-4233-0000-F	CCL-4233-0000-F
48"	0.375" / STD	CCR-4835-0375-P*	CCL-4835-0375-P*	CCR-4835-0375-P*	CCL-4835-0375-P*
48"	0.500"	CCR-4835-0500-P*	CCL-4835-0500-P*	CCR-4835-0500-P*	CCL-4835-0500-P*
48"	0.625"	CCR-4835-0625-P*	CCR-4835-0625-P*	CCR-4835-0625-P*	CCR-4835-0625-P*
48"	0.750"	CCR-4835-0750-S	CCR-4835-0750-S	CCR-4835-0750-D	CCR-4835-0750-D
48"	0.875"	CCR-4833-0875-S	CCL-4833-0875-S	CCR-4833-0875-D	CCL-4833-0875-D
48"	1.000"	CCR-4833-1000-S	CCL-4833-1000-S	CCR-4833-1000-D	CCL-4833-1000-D
48"	Flanged	CCR-4833-0000-F	CCL-4833-0000-F	CCR-4833-0000-F	CCL-4833-0000-F

## S-2000 Closure Part Numbers and Dimensions Spare Parts and O-Rings

### OPENING TOOLS

TOOL	PART NUMBER
Ratchet Load Binder (24" to 32")	CAC-21
Ratchet Load Binder (34" to 42")	CAC-22
Ratchet Load Binder (44" to 48")	CAC-23

### PRESSURE ALERT VALVE (PAV)

MATERIAL	PART NUMBER
Carbon Steel PAV 2" to 16"	CAC-01
Carbon Steel PAV 18" to 32"	CAC-02
Carbon Steel PAV 34" to 48"	CAC-03
Stainless Steel PAV 2" to 16"	CAC-04
Stainless Steel PAV 18" to 32"	CAC-05
Stainless Steel PAV 34" to 48"	CAC-06

### O-RINGS

SIZE	BUNA-N	VITON	LOW TEMP BUNA-N	LOW TEMP VITON
2"	CSC-0201	CSC-0205	CSC-0202	CSC-0206
3"	CSC-0301	CSC-0305	CSC-0302	CSC-0306
4"	CSC-0401	CSC-0405	CSC-0402	CSC-0406
6"	CSC-0601	CSC-0605	CSC-0602	CSC-0606
8"	CSC-0801	CSC-0805	CSC-0802	CSC-0806
10"	CSC-1001	CSC-1005	CSC-1002	CSC-1006
12"	CSC-1201	CSC-1205	CSC-1202	CSC-1206
14"	CSC-1401	CSC-1405	CSC-1402	CSC-1406
16"	CSC-1601	CSC-1605	CSC-1602	CSC-1606
18"	CSC-1801	CSC-1805	CSC-1802	CSC-1806
20"	CSC-2001	CSC-2005	CSC-2002	CSC-2006
22"	CSC-2201	CSC-2205	CSC-2202	CSC-2206
24"	CSC-2401	CSC-2405	CSC-2402	CSC-2406
26"	CSC-2601	CSC-2605	CSC-2602	CSC-2606
28"	CSC-2801	CSC-2805	CSC-2802	CSC-2806
30"	CSC-3001	CSC-3005	CSC-3002	CSC-3006
32"	CSC-3201	CSC-3205	CSC-3202	CSC-3206
34"	CSC-3401	CSC-3405	CSC-3402	CSC-3406
36"	CSC-3601	CSC-3605	CSC-3602	CSC-3606
38"	CSC-3801	CSC-3805	CSC-3802	CSC-3806
40"	CSC-4001	CSC-4005	CSC-4002	CSC-4006
42"	CSC-4201	CSC-4205	CSC-4202	CSC-4206
44"	CSC-4401	CSC-4405	CSC-4402	CSC-4406
46"	CSC-4601	CSC-4605	CSC-4602	CSC-4606
48"	CSC-4801	CSC-4805	CSC-4802	CSC-4806

**\*More O-Ring options available, consult factory**