

# S-500 THREADED QUICK OPENING CLOSURE

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## PART GUIDE

# S-500 THREADED QUICK OPENING CLOSURE

The Stark S-500 threaded closure represents historically the most widely used closure style in the oil and gas sector. Based on the industry desire for robust and cost-effective solutions, Stark improved upon the industry standard design to bring operation to a new level. Features to avoid hammering and strengthen operator control were incorporated into the otherwise proven design. The S-500 is manufactured in diameters ranging from 2" to 52" (DN50 to DN1300) and pressure series 150 through 1500.

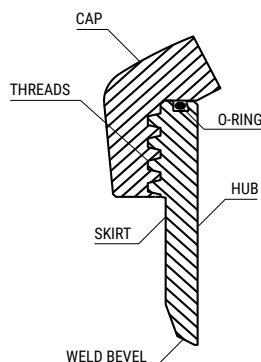


## BENEFITS:

- Proven and robust design
- Economically priced
- Certified to ASME B31.3/B31.4/B31.8/CSA Z662 Cat. I
- Flat sealing surface for best seal results on all sizes
- Bidirectional Hinge design allows the cap to open to left and right side

## STANDARDS:

- 2" to 4" (DN50 to DN100) closures designed for wrench opening
- Opening tool supplied with 6" to 52" (DN150 to DN1300) closures
- PAV per UG-35.2 of ASME BPVC VIII Div. 1 on 6" and larger (2" to 4" optional)
- Cap designed per ASME BPVC VIII Div. 1, U-Stamp compliant
- Nace MR0175 compliant material
- -50° to + 400°F (-45° to 204°C)



## OPTIONS:

- Flanged Closure - welded connection or one piece
- ASME BPVC VIII Div. 1 with U-Stamp for whole closure (cap and hub)
- Opening Wrench for 2" to 4" (DN50 to DN100)
- PAV per UG-35.2 of ASME BPVC VIII Div. 1 on 2" to 4" (DN50 to DN100)
- Stainless Steel and Inconel weld overlay on sealing surfaces
- Custom Wall Thickness, vents, and other modifications
- Special Materials and O-Rings
- Horizontal, Vertical, or Inclined hinging

# S-500 Threaded Closure 2" to 4"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. I

- Maximum test pressure is 1.5 times design pressure
- More closure size options available, consult factory
- \*\*Combination hinge and 1/2" tap on the cap is not available on sizes 2" & 3"
- Note: 2"-4" Hinging for Horizontal and Vertical Installation is the same

DIMENSIONS AND WEIGHTS			
SIZE	WT (LBS)	L x W x H	L x W x H
		Horizontal	Vertical
2"	8	4" x 5" x 6"	8" x 4" x 8"
3"	14	5" x 6" x 7"	9" x 6" x 8"
4"	19	6" x 7" x 9"	9" x 8" x 9"

WEIGHTS ARE BASED ON SERIES 600

NOTICE: See table on page 10 for common O-Ring options.  
Specialty O-Rings available for order upon request.

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	Non-Hinged Series 150 M.A.W.P at DF (0.5/0.6): 285PSI	Non-Hinged Series 300 M.A.W.P at DF (0.5/0.6): 740PSI	Non-Hinged Series 600 M.A.W.P at DF (0.5/0.6): 1480PSI	Hinged Series 150 M.A.W.P at DF (0.5/0.6): 285PSI	Hinged Series 300 M.A.W.P at DF (0.5/0.6): 740PSI	Hinged Series 600 M.A.W.P at DF (0.5/0.6): 1480PSI	Option Includes
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	
2"	0.154" / STD	CTN-0210-0154-S	CTN-0220-0154-S	CTN-0230-0154-S	CTS-0210-0154-S	CTS-0220-0154-S	CTS-0230-0154-S	
2"	0.154" / STD	CTN-0210-0154-E	CTN-0220-0154-E	CTN-0230-0154-E	**	**	**	1/2" Tap
2"	0.154" / STD	CTN-0210-0154-B	CTN-0220-0154-B	CTN-0230-0154-B	CTS-0210-0154-B	CTS-0220-0154-B	CTS-0230-0154-B	PAV
2"	0.154" / STD	CTN-0210-0154-G	CTN-0220-0154-G	CTN-0230-0154-G	**	**	**	1/2" Tap & PAV
2"	0.218" / XH	CTN-0210-0218-S	CTN-0220-0218-S	CTN-0230-0218-S	CTS-0210-0218-S	CTS-0220-0218-S	CTS-0230-0218-S	
2"	0.218" / XH	CTN-0210-0218-E	CTN-0220-0218-E	CTN-0230-0218-E	**	**	**	1/2" Tap
2"	0.218" / XH	CTN-0210-0218-B	CTN-0220-0218-B	CTN-0230-0218-B	CTS-0210-0218-B	CTS-0220-0218-B	CTS-0230-0218-B	PAV
2"	0.218" / XH	CTN-0210-0218-G	CTN-0220-0218-G	CTN-0230-0218-G	**	**	**	1/2" Tap & PAV
2"	Flanged	CTN-0210-0000-F	CTN-0220-0000-F	CTN-0230-0000-F	CTS-0210-0000-F	CTS-0220-0000-F	CTS-0230-0000-F	
3"	0.216" / STD	CTN-0310-0216-S	CTN-0320-0216-S	CTN-0330-0216-S	CTS-0310-0216-S	CTS-0320-0216-S	CTS-0330-0216-S	
3"	0.216" / STD	CTN-0310-0216-E	CTN-0320-0216-E	CTN-0330-0216-E	**	**	**	1/2" Tap
3"	0.216" / STD	CTN-0310-0216-B	CTN-0320-0216-B	CTN-0330-0216-B	CTS-0310-0216-B	CTS-0320-0216-B	CTS-0330-0216-B	PAV
3"	0.216" / STD	CTN-0310-0216-G	CTN-0320-0216-G	CTN-0330-0216-G	**	**	**	1/2" Tap & PAV
3"	0.300" / XH	CTN-0310-0300-S	CTN-0320-0300-S	CTN-0330-0300-S	CTS-0310-0300-S	CTS-0320-0300-S	CTS-0330-0300-S	
3"	0.300" / XH	CTN-0310-0300-E	CTN-0320-0300-E	CTN-0330-0300-E	**	**	**	1/2" Tap
3"	0.300" / XH	CTN-0310-0300-B	CTN-0320-0300-B	CTN-0330-0300-B	CTS-0310-0300-B	CTS-0320-0300-B	CTS-0330-0300-B	PAV
3"	0.300" / XH	CTN-0310-0300-G	CTN-0320-0300-G	CTN-0330-0300-G	**	**	**	1/2" Tap & PAV
3"	Flanged	CTN-0310-0000-F	CTN-0320-0000-F	CTN-0330-0000-F	CTS-0310-0000-F	CTS-0320-0000-F	CTS-0330-0000-F	
4"	0.237" / STD	CTN-0410-0237-S	CTN-0420-0237-S	CTN-0430-0237-S	CTS-0410-0237-S	CTS-0420-0237-S	CTS-0430-0237-S	
4"	0.237" / STD	CTN-0410-0237-E	CTN-0420-0237-E	CTN-0430-0237-E	CTS-0410-0237-E	CTS-0420-0237-E	CTS-0430-0237-E	1/2" Tap
4"	0.237" / STD	CTN-0410-0237-B	CTN-0420-0237-B	CTN-0430-0237-B	CTS-0410-0237-B	CTS-0420-0237-B	CTS-0430-0237-B	PAV
4"	0.237" / STD	CTN-0410-0237-G	CTN-0420-0237-G	CTN-0430-0237-G	CTS-0410-0237-G	CTS-0420-0237-G	CTS-0430-0237-G	1/2" Tap & PAV
4"	0.337" / XH	CTN-0410-0337-S	CTN-0420-0337-S	CTN-0430-0337-S	CTS-0410-0337-S	CTS-0420-0337-S	CTS-0430-0337-S	
4"	0.337" / XH	CTN-0410-0337-E	CTN-0420-0337-E	CTN-0430-0337-E	CTS-0410-0337-E	CTS-0420-0337-E	CTS-0430-0337-E	1/2" Tap
4"	0.337" / XH	CTN-0410-0337-B	CTN-0420-0337-B	CTN-0430-0337-B	CTS-0410-0337-B	CTS-0420-0337-B	CTS-0430-0337-B	PAV
4"	0.337" / XH	CTN-0410-0337-G	CTN-0420-0337-G	CTN-0430-0337-G	CTS-0410-0337-G	CTS-0420-0337-G	CTS-0430-0337-G	1/2" Tap & PAV
4"	Flanged	CTN-0410-0000-F	CTN-0420-0000-F	CTN-0430-0000-F	CTS-0410-0000-F	CTS-0420-0000-F	CTS-0430-0000-F	

# S-500 Threaded Closure 6" to 20"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. I

- Maximum test pressure is 1.5 times design pressure
- More closure size options available, consult factory
- \* Full M.A.W.P. with DF 0.5 and/or 0.6 cannot be met, please consult factory for max. pressure per DF
- Note: 6"-48" Closures (see page 5)

NOTICE: See table on page 10 for common O-Ring options.  
Specialty O-Rings available for order upon request.

DIMENSIONS AND WEIGHTS			
SIZE	WT (LBS)	H x W x L	
		Horizontal	Vertical
6"	58	11" x 11" x 17"	15" x 10" x 12"
8"	74	12" x 14" x 20"	17" x 12" x 13"
10"	117	16" x 15" x 24"	18" x 15" x 15"
12"	144	18" x 17" x 26"	20" x 17" x 15"
14"	195	19" x 19" x 29"	22" x 18" x 15"
16"	420	25" x 24" x 34"	30" x 20" x 26"
18"	771	28" x 25" x 38"	32" x 22" x 27"
20"	889	32" x 26" x 42"	34" x 23" x 27"

WEIGHTS ARE BASED ON SERIES 600

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	Horizontal Series 150	Horizontal Series 300	Horizontal Series 600	Vertical Series 150	Vertical Series 300	Vertical Series 600
		M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
6"	0.280" / STD	CTH-0610-0280-S	CTH-0620-0280-S	CTH-0630-0280-S	CTV-0610-0280-S	CTV-0620-0280-S	CTV-0630-0280-S
6"	0.432" / XH	CTH-0610-0432-S	CTH-0620-0432-S	CTH-0630-0432-S	CTV-0610-0432-S	CTV-0620-0432-S	CTV-0630-0432-S
6"	Flanged	CTH-0610-0000-F	CTH-0620-0000-F	CTH-0630-0000-F	CTV-0610-0000-F	CTV-0620-0000-F	CTV-0630-0000-F
8"	0.322" / STD	CTH-0810-0322-S	CTH-0820-0322-S	CTH-0830-0322-S	CTV-0810-0322-S	CTV-0820-0322-S	CTV-0830-0322-S
8"	0.500" / XH	CTH-0810-0500-S	CTH-0820-0500-S	CTH-0830-0500-S	CTV-0810-0500-S	CTV-0820-0500-S	CTV-0830-0500-S
8"	Flanged	CTH-0810-0000-F	CTH-0820-0000-F	CTH-0830-0000-F	CTV-0810-0000-F	CTV-0820-0000-F	CTV-0830-0000-F
10"	0.365" / STD	CTH-1011-0365-S	CTH-1021-0365-S	CTH-1031-0365-S	CTV-1011-0365-S	CTV-1021-0365-S	CTV-1031-0365-S
10"	0.500" / XH	CTH-1011-0500-S	CTH-1021-0500-S	CTH-1031-0500-S	CTV-1011-0500-S	CTV-1021-0500-S	CTV-1031-0500-S
10"	Flanged	CTH-1011-0000-F	CTH-1021-0000-F	CTH-1031-0000-F	CTV-1011-0000-F	CTV-1021-0000-F	CTV-1031-0000-F
12"	0.375" / STD	CTH-1211-0375-S	CTH-1221-0375-S	CTH-1231-0375-S	CTV-1211-0375-S	CTV-1221-0375-S	CTV-1231-0375-S
12"	0.500" / XH	CTH-1211-0500-S	CTH-1221-0500-S	CTH-1231-0500-S	CTV-1211-0500-S	CTV-1221-0500-S	CTV-1231-0500-S
12"	Flanged	CTH-1211-0000-F	CTH-1221-0000-F	CTH-1231-0000-F	CTV-1211-0000-F	CTV-1221-0000-F	CTV-1231-0000-F
14"	0.375" / STD	CTH-1411-0375-S	CTH-1421-0375-S	CTH-1431-0375-S	CTV-1411-0375-S	CTV-1421-0375-S	CTV-1431-0375-S
14"	0.500" / XH	CTH-1411-0500-S	CTH-1421-0500-S	CTH-1431-0500-S	CTV-1411-0500-S	CTV-1421-0500-S	CTV-1431-0500-S
14"	Flanged	CTH-1411-0000-F	CTH-1421-0000-F	CTH-1431-0000-F	CTV-1411-0000-F	CTV-1421-0000-F	CTV-1431-0000-F
16"	0.375" / STD	CTH-1631-0375-S	CTH-1621-0375-S	CTH-1631-0375-S	CTV-1631-0375-S	CTV-1621-0375-S	CTV-1631-0375-S
16"	0.500" / XH	CTH-1631-0500-S	CTH-1621-0500-S	CTH-1631-0500-S	CTV-1631-0500-S	CTV-1621-0500-S	CTV-1631-0500-S
16"	Flanged	CTH-1631-0000-F	CTH-1621-0000-F	CTH-1631-0000-F	CTV-1631-0000-F	CTV-1621-0000-F	CTV-1631-0000-F
18"	0.375" / STD	CTH-1811-0375-S	CTH-1821-0375-S	CTH-1832-0375-S	CTV-1811-0375-S	CTV-1821-0375-S	CTV-1832-0375-S
18"	0.500" / XH	CTH-1831-0500-S	CTH-1821-0500-S	CTH-1831-0500-S	CTV-1831-0500-S	CTV-1821-0500-S	CTV-1831-0500-S
18"	Flanged	CTH-1831-0000-F	CTH-1821-0000-F	CTH-1831-0000-F	CTV-1831-0000-F	CTV-1821-0000-F	CTV-1831-0000-F
20"	0.375" / STD	CTH-2011-0375-S	CTH-2021-0375-S	CTH-2035-0375-S	CTV-2011-0375-S	CTV-2021-0375-S	CTV-2035-0375-S
20"	0.500" / XH	CTH-2011-0500-S	CTH-2021-0500-S	CTH-2032-0500-S	CTV-2011-0500-S	CTV-2021-0500-S	CTV-2032-0500-S
20"	Flanged	CTH-2011-0000-F	CTH-2021-0000-F	CTH-2032-0000-F	CTV-2011-0000-F	CTV-2021-0000-F	CTV-2032-0000-F

# S-500 Threaded Closure 22" to 36"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. I

- Maximum test pressure is 1.5 times design pressure
- More closure size options available, consult factory
- \*Full M.A.W.P. with DF 0.5 and/or 0.6 cannot be met, please consult factory for max. pressure per DF
- Note: 6" - 48" closures are equipped as a standard with Pressure Alert Valve (PAV)

DIMENSIONS AND WEIGHTS			
SIZE	WT (LBS)	H x W x L	H x W x L
		Horizontal	Vertical
22"	1133	34" x 28" x 46"	37" x 27" x 30"
24"	1150	38" x 29" x 48"	41" x 29" x 35"
26"	1717	38" x 31" x 50"	44" x 31" x 36"
28"	1808	39" x 33" x 52"	47" x 32" x 36"
30"	2066	39" x 36" x 54"	47" x 36" x 36"
36"	3130	40" x 46" x 73"	55" x 43" x 41"

WEIGHTS ARE BASED ON SERIES 600

NOTICE: See table on page 10 for common O-Ring options.  
Specialty O-Rings available for order upon request.

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	Horizontal Series 150	Horizontal Series 300	Horizontal Series 600	Vertical Series 150	Vertical Series 300	Vertical Series 600
		M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
22"	0.375" / STD	CTH-2211-0375-S	CTH-2221-0375-S	CTH-2235-0375-S	CTV-2211-0375-S	CTV-2221-0375-S	CTV-2235-0375-S
22"	0.500" / XH	CTH-2211-0500-S	CTH-2221-0500-S	CTH-2232-0500-S	CTV-2211-0500-S	CTV-2221-0500-S	CTV-2232-0500-S
22"	Flanged	CTH-2211-0000-F	CTH-2221-0000-F	CTH-2232-0000-F	CTV-2211-0000-F	CTV-2221-0000-F	CTV-2232-0000-F
24"	0.375"	CTH-2411-0375-S	CTH-2421-0375-S	CTH-2435-0375-S	CTV-2411-0375-S	CTV-2421-0375-S	CTV-2435-0375-S
24"	0.500"	CTH-2411-0500-S	CTH-2421-0500-S	CTH-2433-0500-S	CTV-2411-0500-S	CTV-2421-0500-S	CTV-2433-0500-S
24"	0.625"	CTH-2411-0625-S	CTH-2421-0625-S	CTH-2433-0625-S	CTV-2411-0625-S	CTV-2421-0625-S	CTV-2433-0625-S
24"	Flanged	CTH-2411-0000-F	CTH-2421-0000-F	CTH-2433-0000-F	CTV-2411-0000-F	CTV-2421-0000-F	CTV-2433-0000-F
26"	0.375"	CTH-2611-0375-S	CTH-2621-0375-S	CTH-2633-0375-P*	CTV-2611-0375-S	CTV-2621-0375-S	CTV-2633-0375-P*
26"	0.500"	CTH-2611-0500-S	CTH-2621-0500-S	CTH-2633-0500-S	CTV-2611-0500-S	CTV-2621-0500-S	CTV-2633-0500-S
26"	0.625"	CTH-2611-0625-S	CTH-2621-0625-S	CTH-2633-0625-S	CTV-2611-0625-S	CTV-2621-0625-S	CTV-2633-0625-S
28"	0.375"	CTH-2811-0375-S	CTH-2821-0375-S	CTH-2835-0375-P*	CTV-2811-0375-S	CTV-2821-0375-S	CTV-2835-0375-P*
28"	0.500"	CTH-2811-0500-S	CTH-2821-0500-S	CTH-2834-0500-S	CTV-2811-0500-S	CTV-2821-0500-S	CTV-2834-0500-S
28"	0.625"	CTH-2811-0625-S	CTH-2821-0625-S	CTH-2833-0625-S	CTV-2811-0625-S	CTV-2821-0625-S	CTV-2833-0625-S
28"	0.750"	CTH-2811-0750-S	CTH-2821-0750-S	CTH-2833-0750-S	CTV-2811-0750-S	CTV-2821-0750-S	CTV-2833-0750-S
30"	0.375"	CTH-3011-0375-S	CTH-3021-0375-S	CTH-3035-0375-P*	CTV-3011-0375-S	CTV-3021-0375-S	CTV-3035-0375-P*
30"	0.500"	CTH-3011-0500-S	CTH-3021-0500-S	CTH-3035-0500-P*	CTV-3011-0500-S	CTV-3021-0500-S	CTV-3035-0500-P*
30"	0.625"	CTH-3011-0625-S	CTH-3021-0625-S	CTH-3033-0625-S	CTV-3011-0625-S	CTV-3021-0625-S	CTV-3033-0625-S
30"	0.750"	CTH-3011-0750-S	CTH-3021-0750-S	CTH-3033-0750-S	CTV-3011-0750-S	CTV-3021-0750-S	CTV-3033-0750-S
36"	0.375"	CTH-3611-0375-S	CTH-3621-0375-P*	CTH-3633-0375-P*	CTV-3611-0375-S	CTV-3621-0375-P*	CTV-3633-0375-P*
36"	0.500"	CTH-3611-0500-S	CTH-3621-0500-S	CTH-3633-0500-P*	CTV-3611-0500-S	CTV-3621-0500-S	CTV-3633-0500-P*
36"	0.625"	CTH-3611-0625-S	CTH-3621-0625-S	CTH-3633-0625-S	CTV-3611-0625-S	CTV-3621-0625-S	CTV-3633-0625-S
36"	0.750"	CTH-3611-0750-S	CTH-3621-0750-S	CTH-3633-0750-S	CTV-3611-0750-S	CTV-3621-0750-S	CTV-3633-0750-S
36"	0.875"	CTH-3611-0875-S	CTH-3621-0875-S	CTH-3633-0875-S	CTV-3611-0875-S	CTV-3621-0875-S	CTV-3633-0875-S

# S-500 Threaded Closure 42" to 48"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. I

- Maximum test pressure is 1.5 times design pressure
- More closure size options available, consult factory
- \*Full M.A.W.P. with DF 0.5 and/or 0.6 cannot be met, please consult factory for max. pressure per DF
- Note: 6" - 48" closures are equipped as a standard with Pressure Alert Valve (PAV)

DIMENSIONS AND WEIGHTS			
SIZE	WT (LBS)	H x W x L	H x W x L
		Horizontal	Vertical
42"	4072	43" x 52" x 80"	61" x 48" x 46"
48"	5223	46" x 59" x 89"	64" x 56" x 47"

WEIGHTS ARE BASED ON SERIES 600

NOTICE: See table on page 10 for common O-Ring options.  
Specialty O-Rings available for order upon request.

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	Horizontal Series 150	Horizontal Series 300	Horizontal Series 600	Vertical Series 150	Vertical Series 300	Vertical Series 600
		M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
42"	0.375"	CTH-4211-0375-S	CTH-4221-0375-P*	CTH-4233-0375-P*	CTV-4211-0375-S	CTV-4221-0375-P*	CTV-4233-0375-P*
42"	0.500"	CTH-4211-0500-S	CTH-4221-0500-S	CTH-4233-0500-P*	CTV-4211-0500-S	CTV-4221-0500-S	CTV-4233-0500-P*
42"	0.625"	CTH-4211-0625-S	CTH-4221-0625-S	CTH-4233-0625-P*	CTV-4211-0625-S	CTV-4221-0625-S	CTV-4233-0625-P*
42"	0.750"	CTH-4211-0750-S	CTH-4221-0750-S	CTH-4233-0750-S	CTV-4211-0750-S	CTV-4221-0750-S	CTV-4233-0750-S
42"	0.875"	CTH-4211-0875-S	CTH-4221-0875-S	CTH-4233-0875-S	CTV-4211-0875-S	CTV-4221-0875-S	CTV-4233-0875-S
42"	1.000"	CTH-4211-1000-S	CTH-4221-1000-S	CTH-4233-1000-S	CTV-4211-1000-S	CTV-4221-1000-S	CTV-4233-1000-S
48"	0.375"	CTH-4811-0375-S	CTH-4821-0375-P*	CTH-4833-0375-P*	CTV-4811-0375-S	CTV-4821-0375-P*	CTV-4833-0375-P*
48"	0.500"	CTH-4811-0500-S	CTH-4821-0500-P*	CTH-4833-0500-P*	CTV-4811-0500-S	CTV-4821-0500-P*	CTV-4833-0500-P*
48"	0.625"	CTH-4811-0625-S	CTH-4821-0625-S	CTH-4833-0625-P*	CTV-4811-0625-S	CTV-4821-0625-S	CTV-4833-0625-P*
48"	0.750"	CTH-4811-0750-S	CTH-4821-0750-S	CTH-4833-0750-S	CTV-4811-0750-S	CTV-4821-0750-S	CTV-4833-0750-S
48"	0.875"	CTH-4811-0875-S	CTH-4821-0875-S	CTH-4833-0875-S	CTV-4811-0875-S	CTV-4821-0875-S	CTV-4833-0875-S
48"	1.000"	CTH-4811-1000-S	CTH-4821-1000-S	CTH-4833-1000-S	CTV-4811-1000-S	CTV-4821-1000-S	CTV-4833-1000-S

# S-500 Threaded Closure 2" to 10"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. I (HUB)

- Maximum test pressure is 1.5 times design pressure
- More closure size options available, consult factory
- \*\*\*Combination hinge and 1/2" tap on the cap is not available on sizes 2" & 3"
- Note: 2"- 4" Hinging for Horizontal and Vertical Installation is the same
- Note: 6"- 48" closures are equipped as a standard with Pressure Alert Valve (PAV)

DIMENSIONS AND WEIGHTS			
SIZE	WT (LBS)	H x W x L	
		Horizontal	Vertical
2"	8	4" x 5" x 6"	8" x 4" x 8"
3"	14	5" x 6" x 7"	9" x 6" x 8"
4"	19	6" x 7" x 9"	9" x 8" x 9"
6"	58	11" x 11" x 17"	15" x 10" x 12"
8"	74	12" x 14" x 20"	17" x 12" x 13"
10"	117	16" x 15" x 24"	18" x 15" x 15"

WEIGHTS ARE BASED ON SERIES 600

NOTICE: See table on page 10 for common O-Ring options.  
Specialty O-Rings available for order upon request.

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	Non-Hinged Series 150	Non-Hinged Series 300	Non-Hinged Series 600	Hinged Series 150	Hinged Series 300	Hinged Series 600	Option Includes
		M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	
2"	0.154"/STD	CTN-0210-0154-D	CTN-0220-0154-D	CTN-0230-0154-D	CTS-0210-0154-D	CTS-0220-0154-D	CTS-0230-0154-D	PAV
2"	0.154"/STD	CTN-0210-0154-C	CTN-0220-0154-C	CTN-0230-0154-C	***	***	***	1/2" Tap & PAV
2"	0.218" / XH	CTN-0210-0218-D	CTN-0220-0218-D	CTN-0230-0218-D	CTS-0210-0218-D	CTS-0220-0218-D	CTS-0230-0218-D	PAV
2"	0.218" / XH	CTN-0210-0218-C	CTN-0220-0218-C	CTN-0230-0218-C	***	***	***	1/2" Tap & PAV
2"	Flanged	CTN-0210-0000-F	CTN-0220-0000-F	CTN-0230-0000-F	CTS-0210-0000-F	CTS-0220-0000-F	CTS-0230-0000-F	
3"	0.216"/STD	CTN-0310-0216-D	CTN-0320-0216-D	CTN-0330-0216-D	CTS-0310-0216-D	CTS-0320-0216-D	CTS-0330-0216-D	PAV
3"	0.216"/STD	CTN-0310-0216-C	CTN-0320-0216-C	CTN-0330-0216-C	***	***	***	1/2" Tap & PAV
3"	0.300" / XH	CTN-0310-0300-D	CTN-0320-0300-D	CTN-0330-0300-D	CTS-0310-0216-D	CTS-0320-0216-D	CTS-0330-0216-D	PAV
3"	0.300" / XH	CTN-0310-0300-C	CTN-0320-0300-C	CTN-0330-0300-C	***	***	***	1/2" Tap & PAV
3"	Flanged	CTN-0310-0000-F	CTN-0320-0000-F	CTN-0330-0000-F	CTS-0310-0000-F	CTS-0320-0000-F	CTS-0330-0000-F	
4"	0.237"/STD	CTN-0410-0237-D	CTN-0420-0237-D	CTN-0430-0237-D	CTS-0410-0237-D	CTS-0420-0237-D	CTS-0430-0237-D	PAV
4"	0.237"/STD	CTN-0410-0237-C	CTN-0420-0237-C	CTN-0430-0237-C	CTS-0410-0237-C	CTS-0420-0237-C	CTS-0430-0237-C	1/2" Tap & PAV
4"	0.337" / XH	CTN-0410-0337-D	CTN-0420-0337-D	CTN-0430-0337-D	CTS-0410-0337-D	CTS-0420-0337-D	CTS-0430-0337-D	PAV
4"	0.337" / XH	CTN-0410-0337-C	CTN-0420-0337-C	CTN-0430-0337-C	CTS-0410-0337-C	CTS-0420-0337-C	CTS-0430-0337-C	1/2" Tap & PAV
4"	Flanged	CTN-0410-0000-F	CTN-0420-0000-F	CTN-0430-0000-F	CTS-0410-0000-F	CTS-0420-0000-F	CTS-0430-0000-F	
6"	0.280"/STD	CTH-0610-0280-D	CTH-0620-0280-D	CTH-0630-0280-D	CTV-0610-0280-D	CTV-0620-0280-D	CTV-0630-0280-D	
6"	0.432" / XH	CTH-0610-0432-D	CTH-0620-0432-D	CTH-0630-0432-D	CTV-0610-0432-D	CTV-0620-0432-D	CTV-0630-0432-D	
6"	Flanged	CTH-0610-0000-F	CTH-0620-0000-F	CTH-0630-0000-F	CTV-0610-0000-F	CTV-0620-0000-F	CTV-0630-0000-F	
8"	0.322"/STD	CTH-0810-0322-D	CTH-0820-0322-D	CTH-0830-0322-D	CTV-0810-0322-D	CTV-0820-0322-D	CTV-0830-0322-D	
8"	0.500" / XH	CTH-0810-0500-D	CTH-0820-0500-D	CTH-0830-0500-D	CTV-0810-0500-D	CTV-0820-0500-D	CTV-0830-0500-D	
8"	Flanged	CTH-0810-0000-F	CTH-0820-0000-F	CTH-0830-0000-F	CTV-0810-0000-F	CTV-0820-0000-F	CTV-0830-0000-F	
10"	0.365"/STD	CTH-1011-0365-D	CTH-1021-0365-D	CTH-1031-0365-D	CTV-1011-0365-D	CTV-1021-0365-D	CTV-1031-0365-D	
10"	0.500" / XH	CTH-1011-0500-D	CTH-1021-0500-D	CTH-1031-0500-D	CTV-1011-0500-D	CTV-1021-0500-D	CTV-1031-0500-D	
10"	Flanged	CTH-1011-0000-F	CTH-1021-0000-F	CTH-1031-0000-F	CTV-1011-0000-F	CTV-1021-0000-F	CTV-1031-0000-F	

# S-500 Threaded Closure 12" to 26"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. I (HUB)
- ASME BPVC SEC. VIII Div. 1 U-STAMP (CAP)

- Maximum test pressure is 1.5 times design pressure
- More closure size options available, consult factory
- \* 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 10 for common O-Ring options.  
Specialty O-Rings available for order upon request.

DIMENSIONS AND WEIGHTS			
SIZE	WT (LBS)	H x W x L	
		Horizontal	Vertical
12"	144	18" x 17" x 26"	37" x 27" x 30"
14"	195	19" x 19" x 29"	41" x 29" x 35"
16"	420	25" x 24" x 34"	44" x 31" x 36"
18"	771	28" x 25" x 38"	47" x 32" x 36"
20"	889	32" x 26" x 42"	47" x 36" x 36"
22"	1133	34" x 28" x 46"	55" x 43" x 41"
24"	1150	38" x 29" x 48"	61" x 48" x 46"
26"	1717	38" x 31" x 50"	64" x 56" x 47"

WEIGHTS ARE BASED ON SERIES 600

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	Horizontal Series 150	Horizontal Series 300	Horizontal Series 600	Vertical Series 150	Vertical Series 300	Vertical Series 600
		M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
12"	0.375" / STD	CTH-1211-0375-D	CTH-1221-0375-D	CTH-1231-0375-D	CTV-1211-0375-D	CTV-1221-0375-D	CTV-1231-0375-D
12"	0.500" / XH	CTH-1211-0500-D	CTH-1221-0500-D	CTH-1231-0500-D	CTV-1211-0500-D	CTV-1221-0500-D	CTV-1231-0500-D
12"	Flanged	CTH-1211-0000-F	CTH-1221-0000-F	CTH-1231-0000-F	CTV-1211-0000-F	CTV-1221-0000-F	CTV-1231-0000-F
14"	0.375" / STD	CTH-1411-0375-D	CTH-1421-0375-D	CTH-1431-0375-D	CTV-1411-0375-D	CTV-1421-0375-D	CTV-1431-0375-D
14"	0.500" / XH	CTH-1411-0500-D	CTH-1421-0500-D	CTH-1431-0500-D	CTV-1411-0500-D	CTV-1421-0500-D	CTV-1431-0500-D
14"	Flanged	CTH-1411-0000-F	CTH-1421-0000-F	CTH-1431-0000-F	CTV-1411-0000-F	CTV-1421-0000-F	CTV-1431-0000-F
16"	0.375" / STD	CTH-1631-0375-D	CTH-1621-0375-D	CTH-1631-0375-D	CTV-1631-0375-D	CTV-1621-0375-D	CTV-1631-0375-D
16"	0.500" / XH	CTH-1631-0500-D	CTH-1621-0500-D	CTH-1631-0500-D	CTV-1631-0500-D	CTV-1621-0500-D	CTV-1631-0500-D
16"	Flanged	CTH-1631-0000-F	CTH-1621-0000-F	CTH-1631-0000-F	CTV-1631-0000-F	CTV-1621-0000-F	CTV-1631-0000-F
18"	0.375" / STD	CTH-1811-0375-D	CTH-1821-0375-D	CTH-1832-0375-D	CTV-1811-0375-D	CTV-1821-0375-D	CTV-1832-0375-D
18"	0.500" / XH	CTH-1811-0500-D	CTH-1821-0500-D	CTH-1832-0500-D	CTV-1811-0500-D	CTV-1821-0500-D	CTV-1832-0500-D
18"	Flanged	CTH-1831-0000-F	CTH-1821-0000-F	CTH-1831-0000-F	CTV-1831-0000-F	CTV-1821-0000-F	CTV-1831-0000-F
20"	0.375" / STD	CTH-2011-0375-D	CTH-2021-0375-S	CTH-2032-0375-P*	CTV-2011-0375-D	CTV-2021-0375-S	CTV-2032-0375-P*
20"	0.500" / XH	CTH-2011-0500-D	CTH-2021-0500-S	CTH-2032-0500-D	CTV-2011-0500-D	CTV-2021-0500-S	CTV-2032-0500-S
20"	Flanged	CTH-2011-0000-F	CTH-2021-0000-F	CTH-2032-0000-F	CTV-2011-0000-F	CTV-2021-0000-F	CTV-2032-0000-F
22"	0.375" / STD	CTH-2211-0375-D	CTH-2221-0375-D	CTH-2232-0375-P*	CTV-2211-0375-D	CTV-2221-0375-D	CTV-2232-0375-P*
22"	0.500" / XH	CTH-2211-0500-D	CTH-2221-0500-D	CTH-2232-0500-D	CTV-2211-0500-D	CTV-2221-0500-D	CTV-2232-0500-D
22"	Flanged	CTH-2211-0000-F	CTH-2221-0000-F	CTH-2232-0000-F	CTV-2211-0000-F	CTV-2221-0000-F	CTV-2232-0000-F
24"	0.375"	CTH-2411-0375-D	CTH-2421-0375-D	CTH-2435-0375-P*	CTV-2411-0375-D	CTV-2421-0375-D	CTV-2435-0375-P*
24"	0.500"	CTH-2411-0500-D	CTH-2421-0500-D	CTH-2433-0500-D	CTV-2411-0500-D	CTV-2421-0500-D	CTV-2433-0500-D
24"	0.625"	CTH-2411-0625-D	CTH-2421-0625-D	CTH-2433-0625-D	CTV-2411-0625-D	CTV-2421-0625-D	CTV-2433-0625-D
26"	0.375"	CTH-2611-0375-D	CTH-2621-0375-D	CTH-2635-0375-P*	CTV-2611-0375-D	CTV-2621-0375-D	CTV-2635-0375-P*
26"	0.500"	CTH-2611-0500-D	CTH-2621-0500-D	CTH-2633-0500-D	CTV-2611-0500-D	CTV-2621-0500-D	CTV-2633-0500-S
26"	0.625"	CTH-2611-0625-D	CTH-2621-0625-D	CTH-2633-0625-D	CTV-2611-0625-D	CTV-2621-0625-D	CTV-2633-0625-S



## S-500 Threaded Closure 28" to 48"

- ASME B31.3/B31.4/B31.8/CSA Z662 Cat. I (HUB)
- ASME BPVC SEC. VIII Div. 1 U-STAMP (CAP)

- Maximum test pressure is 1.5 times design pressure
- More closure size options available, consult factory
- \* Full M.A.W.P. with DF 0.5 and/or 0.6 cannot be met, please consult factory for max. pressure per DF
- Note: 6"- 48" closures are equipped as a standard with Pressure Alert Valve (PAV)

NOTICE: See table on page 10 for common O-Ring options.  
Specialty O-Rings available for order upon request.

DIMENSIONS AND WEIGHTS			
SIZE	WT (LBS)	H x W x L	
		Horizontal	Vertical
28"	1808	39" x 33" x 52"	47" x 32" x 36"
30"	2066	39" x 36" x 54"	47" x 36" x 36"
36"	3130	40" x 46" x 73"	55" x 43" x 41"
42"	4072	43" x 52" x 80"	61" x 48" x 46"
48"	5223	46" x 59" x 89"	64" x 56" x 47"

WEIGHTS ARE BASED ON SERIES 600

SIZE (Inch)	Matching Wall Thickness & Pipe Schedule	Horizontal Series 150	Horizontal Series 300	Horizontal Series 600	Vertical Series 150	Vertical Series 300	Vertical Series 600
		M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI	M.A.W.P at DF (0.5/0.6): 285PSI	M.A.W.P at DF (0.5/0.6): 740PSI	M.A.W.P at DF (0.5/0.6): 1480PSI
		PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
28"	0.375"	CTH-2811-0375-D	CTH-2821-0375-D	CTH-2835-0375-P*	CTV-2811-0375-D	CTV-2821-0375-D	CTV-2835-0375-P*
28"	0.500"	CTH-2811-0500-D	CTH-2821-0500-D	CTH-2833-0500-D	CTV-2811-0500-D	CTV-2821-0500-D	CTV-2833-0500-D
28"	0.625"	CTH-2811-0625-D	CTH-2821-0625-D	CTH-2833-0625-D	CTV-2811-0625-D	CTV-2821-0625-D	CTV-2833-0625-D
30"	0.375"	CTH-3011-0375-D	CTH-3021-0375-D	CTH-3035-0375-P*	CTV-3011-0375-D	CTV-3021-0375-D	CTV-3035-0375-P*
30"	0.500"	CTH-3011-0500-D	CTH-3021-0500-D	CTH-3033-0500-D	CTV-3011-0500-D	CTV-3021-0500-D	CTV-2833-0500-D
30"	0.625"	CTH-3011-0625-D	CTH-3021-0625-D	CTH-3033-0625-D	CTV-3011-0625-D	CTV-3021-0625-D	CTV-3033-0625-D
30"	0.750"	CTH-3011-0750-D	CTH-3021-0750-D	CTH-3033-0750-D	CTV-3011-0750-D	CTV-3021-0750-D	CTV-3033-0750-D
36"	0.375"	CTH-3611-0375-D	CTH-3621-0375-P*	CTH-3635-0375-P*	CTV-3611-0375-D	CTV-3621-0375-P*	CTV-3635-0375-P*
36"	0.500"	CTH-3611-0500-D	CTH-3621-0500-D	CTH-3635-0500-P*	CTV-3611-0500-D	CTV-3621-0500-D	CTV-3635-0500-P*
36"	0.625"	CTH-3611-0625-D	CTH-3621-0625-D	CTH-3633-0625-D	CTV-3611-0625-D	CTV-3621-0625-D	CTV-3633-0625-D
36"	0.750"	CTH-3611-0750-D	CTH-3621-0750-D	CTH-3633-0750-D	CTV-3611-0750-D	CTV-3621-0750-D	CTV-3633-0750-D
36"	0.875"	CTH-3611-0875-D	CTH-3621-0875-D	CTH-3633-0875-D	CTV-3611-0875-D	CTV-3621-0875-D	CTV-3633-0875-D
42"	0.375"	CTH-4211-0375-D	CTH-4221-0375-D	CTH-4235-0375-P*	CTV-4211-0375-D	CTV-4221-0375-D	CTV-4235-0375-P*
42"	0.500"	CTH-4211-0500-D	CTH-4221-0500-D	CTH-4235-0500-P*	CTV-4211-0500-D	CTV-4221-0500-D	CTV-4235-0500-P*
42"	0.625"	CTH-4211-0625-D	CTH-4221-0625-D	CTH-4235-0625-P*	CTV-4211-0625-D	CTV-4221-0625-D	CTV-4235-0625-P*
42"	0.750"	CTH-4211-0750-D	CTH-4221-0750-D	CTH-4233-0750-D	CTV-4211-0750-D	CTV-4221-0750-D	CTV-4233-0750-D
42"	0.875"	CTH-4211-0875-D	CTH-4221-0875-D	CTH-4233-0875-D	CTV-4211-0875-D	CTV-4221-0875-D	CTV-4233-0875-D
42"	1.000"	CTH-4211-1000-D	CTH-4221-1000-D	CTH-4233-1000-D	CTV-4211-1000-D	CTV-4221-1000-D	CTV-4233-1000-D
48"	0.375"	CTH-4811-0375-D	CTH-4821-0375-P*	CTH-4835-0375-P*	CTV-4811-0375-D	CTV-4821-0375-P*	CTV-4835-0375-P*
48"	0.500"	CTH-4811-0500-D	CTH-4821-0500-P*	CTH-4835-0500-P*	CTV-4811-0500-D	CTV-4821-0500-P*	CTV-4835-0500-P*
48"	0.625"	CTH-4811-0625-D	CTH-4821-0625-D	CTH-4835-0625-P*	CTV-4811-0625-D	CTV-4821-0625-D	CTV-4835-0625-P*
48"	0.750"	CTH-4811-0750-D	CTH-4821-0750-D	CTH-4833-0750-P*	CTV-4811-0750-D	CTV-4821-0750-P*	CTV-4833-0750-D
48"	0.875"	CTH-4811-0875-D	CTH-4821-0875-D	CTH-4833-0875-D	CTV-4811-0875-D	CTV-4821-0875-D	CTV-4833-0875-D
48"	1.000"	CTH-4811-1000-D	CTH-4821-1000-D	CTH-4833-1000-D	CTV-4811-1000-D	CTV-4821-1000-D	CTV-4833-1000-D

## S-500 Threaded Closure Part Numbers and Dimensions Spare Parts and O-Rings

### OPENING TOOLS

TOOL	PART NUMBER
Small Ratchet Tool (16" to 24" Series 300)	CAT-07
Large Ratchet Tool (24" Series 600 to 52")	CAT-08
2" Lug Wrench	CAT-11
3" Lug Wrench	CAT-13
4" Lug Wrench	CAT-15
6" Lug Wrench	CAT-17
8" Lug Wrench	CAT-19
10" Lug Wrench	CAT-21
12" Lug Wrench	CAT-23
14" Lug Wrench	CAT-25

**\*Flat Wrenches available on 2" - 14" closures**

### PRESSURE ALERT VALVE (PAV)

MATERIAL	PART NUMBER
Carbon Steel PAV	CAT-01
Stainless Steel PAV	CAT-02

### O-RINGS

SIZE	BUNA-N	FKM	LOW TEMP BUNA-N	LOW TEMP FKM
2"	CST-0201	CST-0205	CST-0202	CST-0206
3"	CST-0301	CST-0305	CST-0302	CST-0306
4"	CST-0401	CST-0405	CST-0402	CST-0406
6"	CST-0601	CST-0605	CST-0602	CST-0606
8"	CST-0801	CST-0805	CST-0802	CST-0806
10"	CST-1001	CST-1005	CST-1002	CST-1006
12"	CST-1201	CST-1205	CST-1202	CST-1206
14"	CST-1401	CST-1405	CST-1402	CST-1406
16"	CST-1601	CST-1605	CST-1602	CST-1606
18"	CST-1801	CST-1805	CST-1802	CST-1806
20"	CST-2001	CST-2005	CST-2002	CST-2006
22"	CST-2201	CST-2205	CST-2202	CST-2206
24"	CST-2401	CST-2405	CST-2402	CST-2406
26"	CST-2601	CST-2605	CST-2602	CST-2606
28"	CST-2801	CST-2805	CST-2802	CST-2806
30"	CST-3001	CST-3005	CST-3002	CST-3006
32"	CST-3201	CST-3205	CST-3202	CST-3206
34"	CST-3401	CST-3405	CST-3402	CST-3406
36"	CST-3601	CST-3605	CST-3602	CST-3606
38"	CST-3801	CST-3805	CST-3802	CST-3806
40"	CST-4001	CST-4005	CST-4002	CST-4006
42"	CST-4201	CST-4205	CST-4202	CST-4206
44"	CST-4401	CST-4405	CST-4402	CST-4406
46"	CST-4601	CST-4605	CST-4602	CST-4606
48"	CST-4801	CST-4805	CST-4802	CST-4806
50"	CST-5001	CST-5005	CST-5002	CST-5006
52"	CST-5201	CST-5205	CST-5202	CST-5206

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