

**ZSI**  
**Cush-A-Nator**  
**Cushioned**  
**Clamps**



**Standard**                      **High Temp.**

- Temp. range: -50° to 275°F (Standard)
- Temp. range: -65° to 340°F (High Temp.)

Rugged steel clamps have a durable thermoplastic rubber cushion that resists high heat and provides long life against vibration fatigue. Cushion is self-aligning and has a built-in squeeze control to help provide evenly distributed pressure around the pipe or tube for a secure fit. Clamps include hardware and come with a standard or high temp. elastomer cushion. Meet MSS SP-58 and MSS SP-69 (Type 58).

Tube Size Standard	Pipe Size	L	W	H	Plated Steel Item No.	304 Stainless Steel Item No.	316 Stainless Steel Item No.
—	1/2 in	1.31 in	1.82 in	—	33KF73	33KG10	33KG46
—	3/4 in	1.57 in	2.08 in	—	33KF74	33KG11	33KG47
—	1 in	1.76 in	2.34 in	—	33KF75	33KG12	33KG48
—	1 1/2 in	2.32 in	2.86 in	—	33KF76	33KG13	33KG49
—	2 in	2.82 in	3.67 in	—	33KF77	33KG14	33KG50
—	3 in	3.95 in	4.79 in	—	33KF79	33KG16	33KG52
1/4 in	—	0.62 in	0.98 in	—	33KF46	33KF82	33KG19
3/8 in	—	0.82 in	1.13 in	—	33KF47	33KF83	33KG20
1/2 in	—	0.94 in	1.34 in	—	33KF48	33KF84	33KG21
5/8 in	—	1.06 in	1.54 in	—	33KF49	33KF85	33KG22
3/4 in	—	1.2 in	1.68 in	—	33KF50	33KF86	33KG23
7/8 in	—	1.31 in	1.82 in	—	33KF51	33KF87	33KG24
1 in	—	1.44 in	1.95 in	—	33KF52	33KF88	33KG25
1 1/8 in	—	1.57 in	2.08 in	—	33KF53	33KF89	33KG26
1 1/4 in	—	1.7 in	2.21 in	—	33KF54	33KF90	33KG27
1 3/8 in	—	1.82 in	2.34 in	—	33KF55	33KF91	33KG28
1 1/2 in	1.62 in	1.95 in	2.47 in	—	33KF56	33KF92	33KG29
1 5/8 in	—	2.07 in	2.6 in	—	33KF57	33KF93	33KG30
1 3/4 in	—	2.2 in	2.73 in	—	33KF65	33KF94	33KG31
1 7/8 in	—	2.32 in	2.86 in	—	33KF66	33KF95	33KG32
2 in	—	2.45 in	3.04 in	—	33KF67	33KF96	33KG33
2 1/8 in	—	2.57 in	3.23 in	—	33KF68	33KG01	33KG37
2 1/4 in	—	2.82 in	3.67 in	—	33KF59	33KF98	33KG35
2 3/8 in	—	2.82 in	3.67 in	—	33KF60	33KF99	33KG36
2 1/2 in	—	3.07 in	3.92 in	—	33KF61	33KG02	33KG38
2 3/4 in	—	2.45 in	3.04 in	—	33KF67	33KF96	33KG33
3 in	—	2.94 in	3.79 in	—	33KF68	33KG01	33KG37
3 1/8 in	—	3.32 in	4.17 in	—	33KF69	33KG03	33KG39
3 1/4 in	—	3.57 in	4.42 in	—	33KF62	33KG04	33KG40
3 3/8 in	—	3.57 in	4.42 in	—	33KF63	33KG05	33KG41
3 1/2 in	—	3.95 in	4.79 in	—	33KF70	33KG06	33KG42
4 in	—	4.57 in	5.54 in	—	33KF64	33KG08	33KG44
4 in	—	4.45 in	5.11 in	—	33KF71	33KG07	33KG43
<b>High Temp.</b>							
—	1 1/2 in	2.32 in	2.86 in	—	33KG85	33KH23	33KH58
1/4 in	—	0.62 in	0.98 in	—	33KG55	33KG91	33KH28
3/8 in	—	0.82 in	1.13 in	—	33KG56	33KG92	33KH29
1/2 in	—	0.94 in	1.34 in	—	33KG57	33KG93	33KH30
5/8 in	—	1.06 in	1.54 in	—	33KG58	33KG94	33KH31
3/4 in	—	1.2 in	1.68 in	—	33KG59	33KG95	33KH32
7/8 in	—	1.31 in	1.82 in	—	33KG60	33KG96	33KH33
1 in	—	1.44 in	1.95 in	—	33KG61	33KG97	33KH34
1 1/8 in	—	1.57 in	2.08 in	—	33KG62	33KG98	33KH35
1 1/4 in	—	1.7 in	2.21 in	—	33KG63	33KG99	33KH36
1 3/8 in	—	1.82 in	2.34 in	—	33KG64	33KH01	33KH37
1 1/2 in	—	1.95 in	2.47 in	—	33KG65	33KH02	33KH38
1 5/8 in	—	2.07 in	2.6 in	—	33KG66	33KH03	33KH39
1 3/4 in	—	2.2 in	2.73 in	—	33KG69	33KH06	33KH42
2 in	—	2.45 in	3.04 in	—	33KG70	33KH07	33KH43
2 1/8 in	—	2.57 in	3.23 in	—	33KG74	33KH11	33KH47
2 1/4 in	—	3.07 in	3.92 in	—	33KG77	33KH14	33KH50
2 3/8 in	—	3.57 in	4.42 in	—	33KG77	33KH14	33KH50
3 in	—	4.45 in	5.11 in	—	33KG79	33KH16	33KH52

**Hanging and Duct Straps**

**Hanging Straps**—Have alternating 3/16" nail holes and 1/4" bolt holes for multiple mounting options.



**4NCD7**

**Duct Strapping**—Use for hanging ductwork in HVAC applications.

Material	W	L (ft.)	Gauge	Hanging Straps Item No.	Material	W	L (ft.)	Gauge	Duct Strapping Item No.
304 Stainless Steel	100 ft	20	24	4NCC7	304 Stainless Steel	1 in	10 ft	20	4NCD8
	100 ft	24	24	4NCD2		1 in	10 ft	24	4NCD9
	100 ft	20	24	4NCC8		1 in	100 ft	24	4NCD4
	100 ft	24	24	4NCD3		1 in	100 ft	24	4NCD6
Copper	25 ft	—	—	5P127	Galvanized Steel	1 in	10 ft	24	4NCE1
Copper	10 ft	24	24	4NCD4		1 in	100 ft	20	4NCE7
Plated Steel	100 ft	24	24	4NCD5		1 in	100 ft	24	4NCE2
	10 ft	20	24	4NCC5		1 in	100 ft	26	4NCE5
Galvanized Steel	10 ft	24	24	4NCC9		1 1/2 in	100 ft	30	4NCE6
	100 ft	20	24	4NCC6					
	100 ft	24	24	4NCD1					

**Pipe Straps**

**ELECTRO-GALVANIZED STEEL, 1-HOLE/2-HOLE**

Recommended for supporting horizontal runs of piping from the face of a structural member. Fastening hole in strap may be above or below pipe.



**1CWCS**

**GALVANIZED STEEL, 2-HOLE**

Use to secure CPVC pipe in a horizontal position on the bottom of structural wood beams, or on steel with hanger tab in the upward position. Can also be used as a guide to limit movement of a vertical CPVC pipe with tab in the vertical position.



**5P128**

**HEAVY-DUTY AND COPPER, 2-HOLE**

Help secure tubing to walls, studs, etc. and help form a rigid system. 1/2" to 2" straps are 10 ga.; 2 1/2" to 4" straps are 3 ga. Zinc-plated finish is more corrosion resistant than plain steel; 304 stainless provides better corrosion resistance than zinc-plated. Copper straps sold 5 per pack, all others sold each.

Pipe Size (in.)	Electro-Galvanized Steel, 1-Hole/2-Hole Item No.	Galvanized Steel, 2-Hole Item No.	Galvanized Steel, Single Hole Wrap Strap Item No.	Heavy-Duty 304 Stainless Steel, 2-Hole Item No.	Heavy-Duty Plain Steel, 2-Hole Item No.	Heavy-Duty Zinc-Plated, 2-Hole Item No.	Copper 2-Hole Item No.	Pre-Galvanized Steel, 1-Hole Clamp Item No.
1/2"	1CWCS8	—	—	—	—	—	—	—
3/4"	—	—	—	4NCA5	4KJV8	4KJW8	1CWCS9	—
1"	—	4HYC9	4HYC4	4NCA6	4KJV9	4KJW9	1CWCS1	—
1 1/4"	—	4HYD1	4HYC5	4NCA7	4KJW1	4KJX1	1CWCS2	—
1 1/2"	—	4HYD2	4HYC6	4NCA8	4KJW2	4KJX2	1CWCS3	—
2"	—	4HYD3	4HYC7	4NCA9	4KJW3	4KJX3	1CWCS4	—
2 1/2"	4KJX8 *	4HYD4	4HYC8	4NCC1	4KJW4	4KJX4	1CWCS5	—
3"	4NCA3 *	—	—	4NCC2	4KJW5	4KJX5	—	—
4"	4NCA4 *	—	—	4NCC3	4KJW6	4KJX6	—	—
				4NCC4	4KJW7	4KJX7	—	—

\* 2-hole straps.



**Ductile-Iron Couplings**

- Temp. range: -20° to 180°F

Join pipe with no special preparation required. Allow limited pipe expansion and contraction; also dampen vibration. Meet ASTM A307, ASTM A536, NSF 61, and ASTM A53C.



**4NWX2**

Pipe Size - Pipe Fitting	Fitting Length			
	4 1/2 in Item No.	5 in Item No.	7 in Item No.	12 in Item No.
3/4 in	4NWX2	—	—	4NWX3
1 in	—	4NWX4	—	4NWX5
1 1/2 in	—	4NWX6	—	4NWX7
2 in	—	4NWX8	4NWX9	4NWX1
3 in	—	4NWX2	4NWX3	4NWX4
4 in	—	4NWX5	4NWX6	4NWX7

**AWWA Pipe Couplings**

- Max. pressure: 250 psi
- Temp. range: -20° to 180°F
- Nitrile gasket
- Vacuum rating: 28" Hg



**5ENH2**

Can join pipes with up to 1.65" of pipe differential using a single flange and gasket. Couplings are heavy cast ductile iron and epoxy coated to resist corrosion. 5/8" bolts. Meet AWWA C219, ANSI A21.11, NSF 61, ASTM A-536, ASTM 633-78.

Pipe Size - Pipe Fitting	No. of Fitting Bolts	Length	Item No.
1 5/16 in to 2 1/4 in	2	4 in	5ENH2
2 1/4 in to 2 7/8 in	2	4 in	5ENH3
2 5/8 in to 3 1/8 in	2	4 in	5ENH4
3 1/8 in to 4 1/4 in	4	5 in	5ENH5
4 1/4 in to 5 1/8 in	4	5 1/2 in	5ENH6
6 1/8 in to 7 1/4 in	4	6 in	5ENH7
8 1/8 in to 9 1/4 in	4	6 in	5ENH8
10 1/4 in to 12 1/4 in	8	7 1/2 in	5ENH9
12 3/4 in to 14 1/4 in	8	7 1/2 in	5ENJ0