



Steam Trapping and Steam Tracing Equipment

Armstrong



STEAM • AIR • HOT WATER



It's pretty obvious, really. An efficient steam trap wastes less energy, which means you burn less fuel and reduce emissions. The results are energy savings and a cleaner, healthier environment. By helping companies manage energy, Armstrong steam traps are also helping protect the world we all share.

As a steam trap wears, it loses efficiency and begins to waste energy. But Armstrong inverted bucket traps last years longer than other traps. They operate more efficiently longer because the inverted bucket is the most reliable steam trap operating principle known. Clearly, the longer an efficient trap lasts, the more it reduces energy wasted, fuel burned and pollutants released into the air. It's an all-around positive situation that lets the environment win, too. Bringing energy down to earth in your facility could begin with a renewed focus on your steam system, especially your steam traps. Said another way: Zeroing in your steam traps is an easy way to pay less money for energy—and more attention to the environment.

Companies around the world are beginning to realize that rather than being separate challenges, energy and the environment are and have always been a single mission. And that quality management in one area will surely impact the other.



Armstrong Steam Trap ID Charts

Illustration	Tuno	Flow	Connection	Max. Allow.	ТМА	A Body Material	Madal	Max. Oper.			Co	nnectio	on Size			Located
mustration	INHE	Direction	Туре	Press. psig	°F	Material	WOUCI	Press. psig	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	on Page
	Series 200						211	250	•							
	Bucket	▲					212	250	•	•						
			Corourd	050	450	ASTM A48	213	250	•	•	•					
			Screweu	250	450	Class 30 Cast Iron	214	250			•	•				ST-11
	Capacities to						215	250			•	•	•			
	20,000 10/11						216	250					•	•		
	Series 800						800	150	•	•						
	Bucket						811	250	•	•	•					07.40
						ACTM A 40	812	250	•	•						51-13
			Screwed	250	450	Class 30	813	250		•	•					
						Cast Iron	814	250			•	•				
	Capacities to						815	250			•	•	•	•		ST-15
	20,000 lb/hr						816	250						•	•	
	Series 880						880	150	•	•						
	Bucket					ASTM A48	881	250	•	•	•					
			Screwed	250	450	Class 30 Cast Iron	882	250	•	•						ST-17
	Capacities to 4,400 lb/hr						883	250		•	•	•				
	Series 980															
	Bucket		Scrowod			ASTM A216	981	600	•	•						
			Socketweld	600	650	WCB										ST-10
	Capacities to		Flanged†			Carbon Steel	983	600		•	•					01-10
	4,400 lb/hr							000			-					
	Series 300 Inverted			★★ 770			210	400								
	Bucket			600			212	400 600			•					
			Screwed	1 000	**	ASTM A105	212	650								07.01
			Flanged†	1 130	100	Forged Steel	314	650			•	•				51-21
	Capacities to			965			315	650			•	•	•			
	20,000 lb/hr			1.050			316	650			-	-	•	•		
	Series 411G			,												
	Inverted Bucket	♠	Screwed	**	**											
	Buonor		Socketweld	1,000	700	Forged Steel	411G	1,000	•	•						ST-23
	Capacities to 1,300 lb/hr		FlangedT			5										
	Series 421															
	Inverted			**	**	Body ASTM A105										
	DUCKEL	│ ⊳	Screwed Socketweld	1.000	700	Forged Steel	421	1.000	•	•						ST 00
	Canacities to		Flanged†	1,000		Сар		1,000								51-25
	1,300 lb/hr					ASTM A216 WCB										
	Series 400			**			413	1 000	•	•	•					
	Bucket	1	Screwed	1,050	**	ASTM A182		1,000								
	Capacities to		Socketweld	1,080	850	F22 Forged Steel	415	1,000			•	•	•			ST-25
	20,000 lb/hr		Fiangeul	1 250		i viyeu Steel	A16	1 000								
				1,300			410	1,000					-			

★★ See tables on pages ST-21, ST-24 and ST-26 for complete temperature/pressure rating information. †Operating pressure and temperature may be limited depending on the class of flange selected. Steam Trapping and Steam Tracing Equipment

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Armstrong[®] Steam Trap ID Charts

	_	Flow	Connection	Max. Allow.	тма	Body		Max. Oner			Conne	ectio	n Size			Located
Illustration	Туре	Direction	Туре	Press. psig	°F	Material	Model	Press. psig	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	on Page
	Series 401-SH Inverted Bucket	•	Screwed	1 000	000	Carbon Steel	401 01	1 000								
	Capacities to 770 lb/hr		Flanged†	1,000	800	Gr. B	401-51	1,000		•						ST-27
	Series 501-SH Inverted Bucket Capacities to	•	Screwed Socketweld	1,540	850	316L Stainless Steel	501-SH	1,540		•	•					ST-27
	950 lb/hr		Tanyeu			ASTIVIASTZ										
	Series 5000 Inverted Bucket		Socketweld	★★ 1,730	** 900	ASTM A182 F22	5133G	1,500		•	•	•				ST-29
	Capacities to 5,150 lb/hr		Flanged†	★★ 2,070		Forged Steel	5155G	1,800			•	•	•			0.20
	Series 6000 Inverted Bucket Capacities to 6 500 lb/br		Socketweld Flanged†	★★ 3,090	★★ 900	ASTM A182 F22 Forged Steel	6155G	2,700				•	•			ST-31
	Series 1000			400	800		1010	150		•	•					
	Inverted Bucket	▲		400	800		1011	400		•						
			Screwed Socketweld	650	600	304L Stainless Steel	1022	650			•					ST-35
	Capacities to 4,400 lb/hr			450	800		1013	450				•				
Ē	Series U-1000			400	500	3041	U-1010	150		•	•					
			Screwed	400	500	Stainless Steel	11-1011	400		•						ST-25
	Capacities to 2,380 lb/hr		Socketweld	450	500	strainer is carbon steel)	U-1022	450			•					01-00
	Series 1800						1810	200	•	•						
	Inverted Bucket		Screwed	400	800	304L	1010	400								CT 07
	Capacities to		Socketweld			Stainless Steel	1011	400		•	•					51-57
	2,380 ID/III Series 2000			650	600		1822	650		•	•	•				
	Inverted Bucket		Screwed	400	800	304L	2010	200		•	•	•				ST-30
	Capacities to 1,300 lb/hr		Socketweld	650	600	Stainless Steel	2011	650		•	•	•				01-00
	Series 20-DC						21-DC	250		•		-				
	Automatic Differential						22-DC	250			•					
	Controllers		Corowood	250	150	ASTM A48	23-DC	250				•				ST-41
			Sciewed	200	400	Cast Iron	24-DC	250					•			
	Capacities to 20,000 lb/hr	↓					25-DC	250						•		
		•					26-DC	250							•	

★★ See tables on pages ST-30 and ST-32 for complete temperature/pressure rating information. †Operating pressure and temperature may be limited depending on the class of flange selected.

Steam Trap ID Charts

Illustration	Туре	Flow Direction	Connection Type	Max. Allow. Press.	TMA °F	Body Material	Body Model Pi Material Model Pi		x. Connection Size I ss									
		2	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	psig				psig	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	Page	
	Series 80-DC Automatic						81-DC	250		•								
I (I Ľ	Differential	>				10 M TM	82-DC	250		•								
	CONTROLLETS		Screwed	250	450	Class 30	83-DC	250			•						ST-43	
	Capacities to	₩				Cast Iron	84-DC	250				•						
┝┹╬	20,000 lb/hr						86-DC	250						•				
₩ T	Series TVS 80-DC						TVS 81-DC	250	•	•								
	Automatic Differential Controllers		Screwed	250	450	ASTM A48 Class 30 Cast Iron	TVS 82-DC	250	•	•							ST-45	
©==−1	Capacities to 4,400 lb/hr	*					TVS 83-DC	250		•	•							
	Series 30-DC	≜		1,080			33-DC	650			•							
	Automatic Differential		Screwed	1,130	700	ASTM A105	34-DC	650				•					ST-47	
	Capacities to		UCICWCU	1,015	100	Forged Steel	35-DC	650					•				••••	
	20,000 lb/hr	♦		1,100			36-DC	650						•				
	Series B & BI F&T	◄		125	353		B2, B12	30	•▲									
110						ASTM A48	B3, BI3 B4 BI4	30		•▲	• •							
		└	Screwed			Class 30	B5	30				•					ST-51	
	Capacities to	>		175	377	Cast Iron	B6	30					•					
	8,900 ID/III						B8	30						•				
	Series A & AI						AI2	175										
- III S	IQI						A3, AI3	175		•▲								
Ello / I			Screwed	175	377	Class 30	A4, AI4	175			•▲						ST-53	
	Conceition to					Cast Iron	A5	175				•						
	8,600 lb/hr						Δ8	175					•	•				
	Series J&K						70	175						•		_		
	F&T		Screwed	175	450	ASTM A48 Class 30	J8	175						•			ST-55	
	Capacities to 105,000 lb/hr	└ →				Cast Iron	K10	50							•		01.00	
	Series L&M	4				10TN 140	L8	250						•				
			Flanged†	250	450	Class 30	L10	250							•		ST-57	
	Gapacities to 208,000 lb/hr		(screw on)			Cast Iron	M12	250								•		
	Series CS F&T	S Screwed																
	Capacities to 13,281 lb/hr	←	Socketweld Flanged†	600	650	Cast Steel	CS	465	•	•	•	•	•	•			ST-59	
	Series LS&MS						LS8	450						•				
	ΓαΙ		Screwed Socketweld	450	650	ASTM A216 WCB	LS10	450							•		ST-61	
	Capacities to 280,000 lb/hr	►	Flanged†			Carbon Steel	MS12	450								•		

▲ Series AI and BI for in-line connection.

†Operating pressure and temperature may be limited depending on the class of flange selected.

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Armstrong[®] Steam Trap ID Charts

Illustration	Tuno	Flow	Connection	Max. Allow.	ТМА	Rody Material	Model	Max. Oper.	Cor	inectio	n Size		Located
mustration	Type	Direction	Туре	Press. psig	°F	bouy material	Model	Press. psig	3/8"	1/2"	3/4"	1"	on Page
ŢŢ	TVS 800 Trap Valve						TVS 811	250		•	•		
	Station		Screwed	250	450	ASTM A48 Class 30	TVS 812	250		•	•		ST-63
	Capacities to 4,400 lb/hr					Gast from	TVS 813	250			•	•	
	TVS 4000 Trap Valve Station		Screwed Socketweld	650	600	ASTM A351 Gr. CF8M	TVS 4000	650		•	•		ST-67
	TVS 2000 Trap Valve Station		Screwed Socketweld	600	500	304-L Stainless Steel	TVS 2000	600		•	•		ST-71
	Series CD-33 Disc						CD-33			•	•	•	
	Capacities to 2,428 lb/hr					ASTM A743	CD-33L			•	•		ST-75
	Series CD-33S Disc w/Integral Strainer		Screwed	915	752	Gr. CA40	CD-33S	600		•	•	•	ST-75
	Capacities to 2,428 lb/hr						CD-33SL			•	•		
	Series CD-3300 Disc Capacities to 800 lb/hr	* *	Screwed Socketweld	720	750	Stainless Steel	CD-3300	450		•	•	•	ST-78
	Series CD-40	• •					CD-41	600	•	•			
	Disc		Screwed	600	500	Carbon Steel	CD-42	600			•		ST-79
	Capacities to 2,850 lb/hr	↓ ↓				01001	CD-43	600				•	
	Series CD-60	• •					CD-61	600	•	•			
	Disc		Screwed Socketweld	600	750	Forged Carbon Steel	CD-62	600			•		ST-70
	Capacities to 2,850 lb/hr	•	00011011010				CD-63	600				•	0170
	Series WT Thermostatic		Screwed	400	650	304-L Stainless Steel	WT-1	400		•	•		
	Wafer	↓ ↓		600	750	C1018 Carbon Steel	WT-3	600		•	•		OT 01
	Start-up Capacities to 1,600 lb/hr		Screwed Socketweld	400	650	304-L Stainless Steel	WT-2000	400		•	•	•	51-01
	Series MT Thermostatic Wafer		Screwed	250	400	304-L Stainless Steel	WMT-1	250	1/4" 3/8" • •	•			07.00
	Cold Water Start-up Capacities to 1,000 lb/hr	•	Screwed Socketweld Flanged †	350	662	Carbon Steel	MT-2	250		•	•		51-83

†Operating pressure and temperature may be limited depending on the class of flange selected.

Steam Trap ID Charts



Illuotration	Туре	Flow	Connection	Max. Allow.	ТМА	Dody Motorial	Model	Max. Oper.	Coi		Located		
illustration		Direction	Туре	Press. psig	°F	BOOY MATERIAL	WODEI	Press. psig	3/8"	1/2"	3/4"	1"	1" on Page
	Model SH Bimetallic		Screwed NPT BSPT Socketweld Flanged†	350	662	Carbon Steel	SH-250	250		•	•	•	ST-84
	Cold Water	\	Screwed NPT BSPT Socketweld Buttweld Flanged†	900	900	Stainless Steel	SH-900	L = 650* H = 900*		•	•		ST-84
	Start-up Capacities to 11,000 lb/hr		Buttweld Flanged†									•	
	Series TT Thermostatic Bellows		Corourd				TTF-1			•	•		
		•	Screwed	300	450	304-L Stainless Steel	TTF-1R	300		•	•		ST-85
	Capacities to 3,450 lb/hr		Screwed Socketweld	-			TT-2000			•	•	•	
	Series TS-2/TS-3 Radiator		Threaded	50	300	– Bronze –	TS-2	50		•	•		ST-88
	Capacities to 1,600 lb/hr		THEADED	65	315		TS-3	65		•	•	•	
	TAVB Thermostatic Bellows w/Integral Vacuum Breaker	A	Straight-Thru Screwed	300	450	304-L Stainless Steel	TAVB-2 TAVB-3	175		•	•		ST-87
	Series TC Thermostatic Clean Steam Clamped Capacities to 3,450 lb/hr		Sanitary	120	350	Stainless Steel	TC-C	100		•	•	•	
	Series TC Thermostatic	1	Sanitary							•	•	•	
	Clean Steam Sealed		Threaded	150	366	Stainless Steel	TC-S	120		•	•		ST-89
	Capacities to 3,775 lb/hr	*	Tube End							•	•		
	Series TC Thermostatic		Sanitary							•	•	•	
	Repairable		Threaded	120	350	Stainless Steel	TC-R	100		•	•		
	Gapacities to 3,775 lb/hr		Tube End							•	•		

 \dagger Operating pressure and temperature may be limited depending on the class of flange selected. * L = low pressure, H = high pressure.