

W. H. Nicholson & Company

Main Offices and Factory: 211 Oregon Street, Wilkes-Barre, Pa.

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STEAM, WATER, AIR, OIL AND GAS SPECIALTIES

TRAPS	Piston-Operated: Steam, to 650 lb.	trol: Air, Gas, Oil, Steam, Water; Lever, Foot, Solenoid, Motor-Operated; to 5000 lb.
Thermostatic: Steam, to 225 lb.	Radiator: to 15 lb.	FLOATS: Welded: 2 in. to 14 in. diam.; Pressures to 4800 lb.
Expansion: Steam, to 250 lb.	SEPARATORS: Steam, Air, Gas to 250 lb.	
Weight-Operated: Steam, Air, Gasoline; to 1500 lb.	STRAINERS: to 600 lb.	
	VALVES, Cylinder Con-	

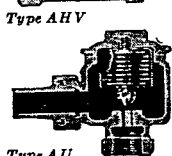
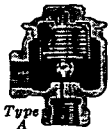
ENGINEERING BULLETINS AVAILABLE ON ALL NICHOLSON PRODUCTS

NICHOLSON INDUSTRIAL STEAM TRAPS

5 Types for Every Heat, Power and Process Application

A survey of large users of Nicholson industrial steam traps showed these main reasons for the increasing standardization on Nicholson units for specified applications:

- 1) Operate on lowest possible temperature differential; no waterlogging.
- 2) Have 2 to 6 times average drainage capacity.
- 3) No need to change or adjust valves for varying pressures.
- 4) Record low for steam waste.
- 5) Maximum air-venting capacity.



Nicholson installations have repeatedly shown production increases up to 30 per cent. Some typical unit applications: plastic moulding platens, dry kilns, steam mains, unit heaters, radiators, pipe coils, drips, hot water heaters, driers, jacketed kettles, cookers, coffee and hot water urns, dish heaters, vegetable steamers, bakers' proof boxes, steam tables, sterilizers, ironers, presses, mangles.

Types A, AHV and AU, shown on this page, are for pressures from vacuum to 200 lb. Bronze construction, aluminum painted. BULLETIN 1047

Max. Capacity in Lbs per Hr. at Various Pressures—Types A, AHV, AU

Size, Inches	1 Lb.	2 Lbs.	5 Lbs.	10 Lbs.	20 Lbs.	40 Lbs.	60 Lbs.
1/4-3/4-1 1/2	750	1060	1670	2340	3290	4585	5550
1/2	860	1220	1920	2690	3785	5270	6380
1	990	1410	2210	3100	4350	6050	7350

Size, Inches	80 Lbs.	100 Lbs.	125 Lbs.	150 Lbs.	175 Lbs.	200 Lbs.
1/4-3/4-1 1/2	6325	7030	7800	8415	9,040	9,610
1/2	7270	8080	8970	9675	10,400	11,060
1	8375	9310	10,350	11,100	11,950	12,700

See Note A p. 2

LIST PRICES—TYPES A, AHV, AU

Size, Inches	Types A and AHV With Bellows of			Type AU With Bellows of			Valve Orifice, Inches
	Bronze	Monel	Stainless	Bronze	Monel	Stainless	
1/4-3/4-1 1/2	\$13.20	\$15.70	\$18.70	\$14.30	\$16.80	\$19.80	3/4
1/2	14.30	16.80	19.80	15.40	17.90	20.90	1 1/2
1	16.00	18.50	21.50	17.60	20.10	23.10	2

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Nicholson Industrial Steam Traps, Types B and C

Types B and C are for pressures from vacuum to 225 lb; cast iron, aluminum painted. Type C is also furnished in cast steel, with stainless steel bellows, for pressures to 300 lb with superheat up to 500 deg total temperature. For complete details, BULLETIN 1047.

MAX. CAPACITY IN LBS PER HR. AT VARIOUS PRESSURES

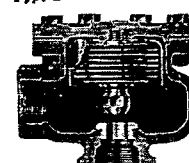
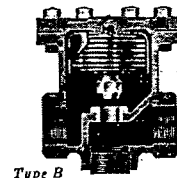
Size, In.	1 lb.	2 lbs.	5 lbs.	10 lbs.	20 lbs.	40 lbs.	60 lbs.	80 lbs.
1/4	1240	1755	2,760	3,880	5,450	7,580	9,190	10,450
1/2	1700	2390	3,770	5,280	7,425	10,340	12,540	14,250
1	2210	3120	4,920	6,900	9,690	13,500	16,380	18,610
1 1/4	2210	3120	4,920	6,900	9,690	13,500	16,380	18,610
1 1/2	4975	7025	11,060	15,520	21,800	30,380	36,800	41,800
2	4975	7025	11,060	15,520	21,800	30,380	36,800	41,800

Size, In.	100 lbs.	125 lbs.	150 lbs.	175 lbs.	200 lbs.	225 lbs.	Cast Steel	
							250 lbs.	300 lbs.
1/4	11,630	12,920	13,900	14,950	15,900	16,740	17,500	19,000
1/2	15,850	17,600	18,990	20,400	21,680	22,800	23,800	25,900
1	20,690	23,000	24,800	26,650	28,300	29,750	31,100	33,800
1 1/4	20,690	23,000	24,800	26,650	28,300	29,750	31,100	33,800
1 1/2	46,600	51,700	55,750	59,900	63,650	66,900	70,000	75,900
2	46,600	51,700	55,750	59,900	63,650	66,900	70,000	75,900

Note A: Capacities shown are maximum with valve orifice wide open for 1 hr, with adjustment made for temperature and conditions of efflux. To permit intermittent discharge, and handling of peak loads at start of operations, select traps to handle not more than 50 per cent of capacities shown.

LIST PRICES, TYPES B AND C

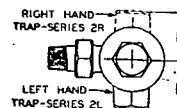
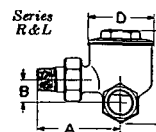
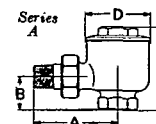
Size, Inches	Types B and C			Type C Only		Valve Orifice, Inches
	Cast Iron With Bellows of			Cast Steel With Bellows of		
	Bronze	Monel	Stainless	Monel	Stainless	
1/4	\$19.40	\$21.90	\$25.45	\$31.10	\$34.10	3/4
3/4	25.45	28.75	33.95	40.25	45.25	1 1/4
1	30.30	33.80	38.80	47.25	52.25	1 3/4
1 1/4	30.30	33.80	38.80	47.25	52.25	2 1/4
1 1/2	44.85	48.35	53.35	68.25	73.25	2 3/4
2	44.85	48.35	53.35	68.25	73.25	3 1/4



Type C

Types A, AU and C are made in angle type only, with horizontal inlet and vertical outlet. Type AU has union connection on inlet. All three types drain completely when cold and will not freeze. Type AHV is especially applicable to drainage problems where necessary or desirable to have all piping run horizontally or vertically, or close to floor, wall or pillar. Type B, made with horizontal inlet and optional horizontal or vertical outlet, offers either angle or horizontal straight-through connections. Types AHV and B traps are not freezeproof.

NICHOLSON TYPE R RADIATOR TRAPS



Thermostatic bellows type; feature balanced vapor-pressure principle and max. diam. valve orifice. Bronze bellows; brass body, cover, union, nut; nickel alloy valve, renewable stainless steel seat. Two angle types for 200 and 400 sq ft EDR, Series 2A vapor and vacuum; r and l-hand corner types for 200 sq ft. Pressure to 15 lb. BULLETIN 744.

DIMENSIONS AND LIST PRICES, TYPE R TRAPS

Series	Size	List Price	A	B	C	D	E	Weight
2A	1/4"	\$5.30	2 1/2"	1 1/2"	2 1/2"	2 1/2"	1 1/2"	1 1/2 lbs
2R & 2L	1/2"	6.00	2 1/2"	1 1/2"	2 1/2"	2 1/2"	1 1/2"	1 1/2 lbs
4A	3/4"	7.95	3 1/2"	1 1/2"	3 1/2"	3 1/2"	1 1/2"	1 1/2 lbs

CAPACITIES IN SQUARE FEET EDR

SERIES AND SIZE	PRESSURE DIFFERENTIAL—LBS. PER SQ. INCH						
	1/4	1/2	1 1/4	1	2	5	15
1/4"-2A, 2R & 2L	85	120	200	165	235	370	530
1/2"-4A	165	230	400	330	465	730	1050
							1300

Note B: Ratings are in accordance with recommended standards of Steam Heat Equip. Mfr's Assn. Select trap directly from table for the lowest pressure differential that may exist in the system.

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