

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 250 lb.	trol: Air, Gas, Oil, Steam, Water; Lever, Foot, Solenoid, Motor-Operated; to 5000 lb.
Thermostatic: Steam, to 250 lb.	Radiator: to 25 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-	

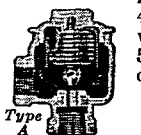
ENGINEERING BULLETINS AVAILABLE ON ALL NICHOLSON PRODUCTS

NICHOLSON INDUSTRIAL STEAM TRAPS

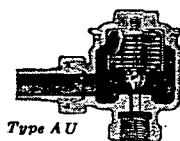
5 Types for Every Heat, Power and Process Application

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.



Type AHV



Type AU

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 152.

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

Size, inches	1 lb.	2 lbs.	5 lbs.	10 lbs.	15 lbs.	20 lbs.	40 lbs.	50 lbs.
1/4-1/2	885	1220	1915	2695	3290	3780	5290	5885
3/4	885	1220	1915	2695	3290	3780	5290	5885
1	1020	1440	2270	3190	3900	4475	6250	6955

Size, inches	60 lbs.	80 lbs.	100 lbs.	125 lbs.	150 lbs.	175 lbs.	200 lbs.
1/4-1/2	6400	7310	8120	8925	9775	10,400	11,090
3/4	6400	7310	8120	8925	9775	10,400	11,090
1	7590	8660	9600	10,570	11,590	12,310	13,100

See Note A, next page

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	
1/4-1/2	\$17.60	\$20.90	\$24.90	\$19.05	\$22.40	\$26.40	1/4"
3/4	19.05	22.40	28.40	20.50	23.85	27.85	3/8"
1	21.30	23.65	28.65	23.45	26.80	30.80	1/2"

Nicholson Industrial Steam Traps, Types B and C

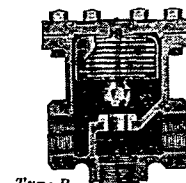
MAXIMUM CAPACITY IN LBS PER HR. AT VARIOUS PRESSURES

Size	1 lb.	2 lbs.	5 lbs.	10 lbs.	15 lbs.	20 lbs.	40 lbs.	50 lbs.	60 lbs.
1/4"	1140	1610	2530	3560	4350	4990	6980	7775	8460
3/4"	1695	2385	3750	5290	6450	7420	10,350	11,540	12,560
1"-1 1/4"	2120	2985	4700	6610	8070	9260	12,960	14,430	15,710
1 1/2"-2"	3200	4510	7100	9990	12,200	14,000	19,600	21,800	23,750

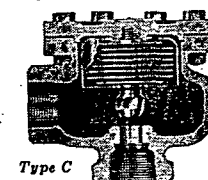
MAXIMUM CAPACITY IN POUNDS PER HOUR AT VARIOUS PRESSURES

Size	80 lbs.	100 lbs.	125 lbs.	150 lbs.	175 lbs.	200 lbs.	225 lbs.	250 lbs.	300 lbs.
1/4"	9660	10,720	11,800	12,920	13,750	14,640	15,380	16,090	17,400
3/4"	14,350	15,910	17,500	19,190	20,400	21,720	22,800	23,870	25,820
1"-1 1/4"	17,930	19,900	21,880	23,980	25,500	27,200	28,500	29,550	32,300
1 1/2"-2"	27,120	30,100	33,100	36,300	38,600	41,100	43,200	45,150	48,900

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% of capacities shown.



Type B



Type C

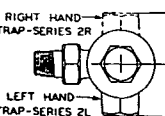
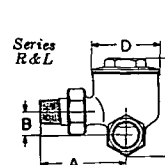
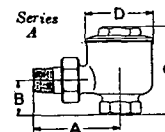
Types B and C are for pressures from vacuum to 225 lb; semi-steel, aluminum painted. Type C is also furnished in cast steel, with stainless steel bellows, for pressures to 300 lb with superheat up to 500 deg total temperature. For complete details, BULLETIN 152.

LIST PRICES, TYPES B AND C

Size, Inches	Type B Semisteel With Bellows of			Type C Semisteel With Bellows of			Cast Steel With Bellows of		Valve Orifice, Inches
	Bronze	Monel	Stainless	Bronze	Monel	Stainless	Monel	Stainless	
1/4"	\$25.85	\$29.20	\$33.70	\$25.85	\$29.20	\$33.70	\$41.35	\$45.45	1/4"
3/4"	33.90	38.30	45.25	33.90	38.30	45.25	53.70	60.30	3/8"
1"-1 1/4"	40.40	43.95	50.15	40.40	43.95	50.15	65.00	69.65	1/2"
1 1/2"-2"	59.80	64.45	71.10	59.80	64.45	71.10	91.00	97.65	3/4"

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



RIGHT HAND TRAP—SERIES 2R

LEFT HAND TRAP—SERIES 2L

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, vapor and vacuum; r and l-hand corner types for 200 sq ft. Pressure to 25 lbs. BULLETIN 452.

DIMENSIONS AND LIST PRICES, TYPE R TRAPS

Series	Size	List Price	A	B	C	D	E	Weight
2A	1/4"	\$5.30	2 3/4"	1 1/4"	2 3/4"	2 3/4"		1 1/4 lbs
2A	3/4"	5.85	3 3/4"	1 3/4"	2 3/4"	2 3/4"		1 1/4 lbs
2R & 2L	1/4"	6.00	2 3/4"	1 1/4"	2 3/4"	2 3/4"		1 1/4 lbs
4A	1/2"	7.50	3 3/4"	1 3/4"	2 3/4"	2 3/4"	1 1/4"	1 1/4 lbs
4A	3/4"	7.95	3 3/4"	1 3/4"	2 3/4"	2 3/4"		1 1/4 lbs

CAPACITIES IN SQUARE FEET EDR

SERIES AND SIZE	PRESSURE DIFFERENTIAL—LBS. PER SQ. INCH							
	1/4"	1/2"	1"	1 1/4"	2"	5"	10"	25"
1/4" & 3/4" 2A, 1/2" 2R & 2L	85	120	165	200	235	370	530	640
1/2" & 3/4" 4A	165	230	330	400	465	730	1050	1640

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.