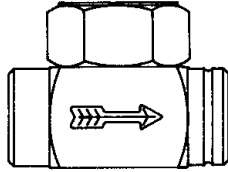


## Installation and Maintenance Guide



### NICHOLSON NTD600

Pressure Range—2 to 600 PSIG (0.14–42 bar)  
 Maximum Temperature—800°F. (426°C)  
 Maximum Back Pressure—80% of Line Pressure

**NICHOLSON**  
**STEAM TRAP**  
 a Division of Spence Engineering Company

**SPENCE**  
 A division of CIRCOR International, Inc.

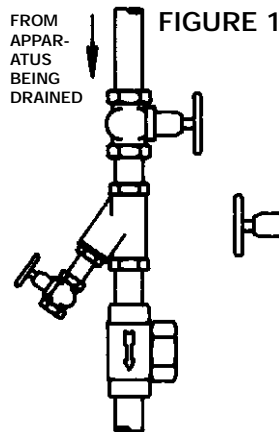
150 Coldenham Road, Walden, NY 12586-2000  
 Phone: (845) 778-4044 ● Fax: (845) 778-7123

011395-5/01

**INSTALLATION**—Before installing trap, blow all dirt and scale from apparatus and piping. Install trap (with arrow on body in flow line) as close as possible to apparatus with strainer (20 mesh) and valve upstream of trap as shown in Figures 1 and 2. Pitch all drain lines toward trap. Approved practice is to install separate traps on each piece of apparatus to be drained. Steam supplied to inlets of several units may be of uniform pressure, but invariably there is a differential at the outlets. Although this differential may be small, unit discharging highest pressure will control the action of trap, while other units become airbound and waterlogged. Piping upstream and downstream of trap should be at least equal to or one size larger than trap

connection. Trap installation as shown in Figure 1 is freeze-proof.

Locate trap for maintenance accessibility.  
**MAINTENANCE**—We strongly recommend blow-off of accumulations in strainer a day or two after the system has been installed. A periodic blow-off or cleaning of strainer should be instituted. Dirt or sediment on disc or body seating will cause abnormal operation. Cleaning of these parts should be done with a soft cloth and solvent. DO NOT WIRE BRUSH OR USE ANY ROUGH IMPLEMENT. Reassemble unit with groove in disc down. Apply anti-seize compound on cover threads. Avoid getting compound on disc or body seating surfaces. See Table for torque values.



TORQUE VALUES FOR COVER—FT.-LB.				
TRAP SIZE	3/8"	1/2"	3/4"	1"
COVER TORQUE	65-75	85-95	105-115	120-130

FROM APPARATUS BEING DRAINED

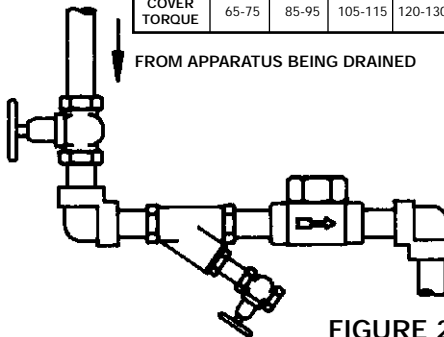


FIGURE 2

### DISCHARGE CAPACITIES IN LBS. PER HOUR OF CONDENSATE

TRAP SIZE	STEAM PRESSURE; PSIG (bar)													
	2 (0, 14)	5 (0, 34)	10 (0, 7)	25 (1, 7)	50 (3, 4)	75 (5, 2)	100 (6, 9)	150 (10, 3)	200 (13, 8)	250 (17, 2)	300 (20, 7)	400 (27, 6)	500 (34, 5)	600 (41, 3)
3/8"	180	185	190	210	255	315	375	500	610	700	790	955	1105	1250
1/2"	290	310	345	440	580	710	810	995	1140	1275	1405	1630	1825	2000
3/4"	395	420	465	600	815	1000	1160	1440	1675	1895	2095	2430	2750	3050
1"	620	660	730	920	1215	1490	1740	2195	2585	2910	3230	3770	4245	4700