

For Steam Main Drip and Process Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series WTD 600

Thermodynamic Steam Traps

Sizes $\frac{3}{8}$ " – 1" (10 – 25mm)

For operating pressure up to 600psi (41 bar)

Series WTD 600 Thermodynamic Steam Traps are economical and compact, designed to efficiently drain steam mains, steam tracing lines, and small process equipment. The WTD 600 Steam Trap discharges condensate at near to steam temperatures, so the steam space remains free of condensate. Their tight shut off feature ensures that valuable steam energy is not wasted. The WTD 600's hardened disc is the only moving part, assuring a long service life, easy low cost maintainability, and improved steam system efficiency.



WTD 600

Features

- Inexpensive: low initial purchase price and lower maintenance costs than traps requiring expensive repair kits
- Compact design: light weight and easy to install. Provides longer service life with simple maintainability. The only moving part is the hardened stainless steel disc
- Rugged all stainless steel: resistant to water hammer, freezing, superheat and corrosion for extra long service life
- Audible discharge cycle: checking trap operation is simple and does not require any special devices
- Blast discharge of condensate: eliminates dirt build up and provides a tight shut off, saving valuable steam energy

Applications

- Steam main drainage
- Superheat steam applications
- Steam tracing lines
- Freeze protection for outside applications
- Small process equipment

Specifications

The thermodynamic steam trap shall be installed as indicated on the plans. The steam trap shall have a maximum pressure of 600psi (41 bar) and a maximum temperature of 800°F (427°C). The trap body shall be manufactured of ANSI 420 stainless steel, the cap and disc shall be manufactured out of ANSI 416 stainless steel. The steam trap shall be a Watts Series WTD 600.

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Materials

Body: ANSI 420 F stainless steel
 Cap: ANSI 416 stainless steel
 Disc: ANSI 416 stainless steel

Pressure – Temperature

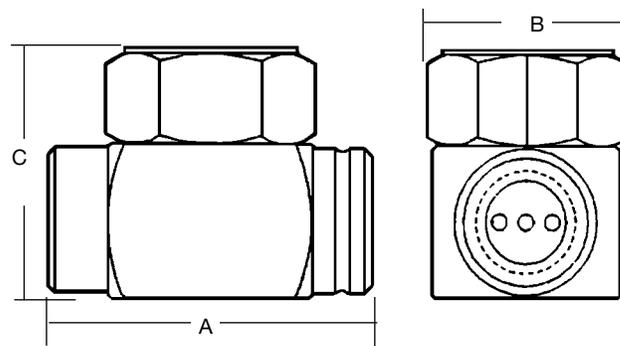
Maximum Operating Pressure: 600psi (42 bar)
 Maximum Operating Temperature: 800°F (427°C)
 Maximum Allowable Pressure: 600psi (42 bar)
 Maximum Allowable Temperature: 800°F (427°C)

Maximum Capacity - Lbs./Hr. at Saturation Steam Temperature

NPT		PSI (BAR)													
CONNECTION		3.5	5	10	20	30	50	75	100	150	200	300	400	500	600
<i>in.</i>	<i>mm</i>	(0.24)	(0.34)	(0.7)	(1.4)	(2.1)	(3.4)	(5.2)	(6.9)	(10.3)	(13.8)	(20.7)	(27.6)	(34.5)	(41.8)
3/8"	10	180	185	190	200	215	245	305	370	500	610	790	960	1100	1250
1/2"	15	300	310	345	410	465	575	700	810	1000	1140	1410	1630	1830	2000
3/4"	20	405	420	470	550	640	810	1000	1160	1450	1670	2100	2430	2750	3050
1"	25	640	670	725	865	980	1200	1470	1750	2200	2600	3250	3780	4250	4700

For Kg./Hr. multiply by .454

Dimensions – Weights



SIZE DN		DIMENSIONS						WEIGHT	
<i>in.</i>	<i>mm</i>	A		B		C		<i>lbs.</i>	<i>kg.</i>
		<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>		
3/8	10	2	51	1 3/4	45	1 3/4	45	.8	36
1/2	15	2 1/16	68	1 3/4	45	2	51	1.2	54
3/4	20	2 3/16	71	2 5/16	59	2 1/16	62	1.8	.82
1	25	3 5/16	84	2 1/2	64	2 7/8	73	3.1	1.41

