

For Steam Main and Process Applications

Job Name _____

Contractor _____

Job Location _____

Approval _____

Engineer _____

Contractor's P.O. No. _____

Approval _____

Representative _____

Series WIB

Inverted Bucket Steam Traps

Sizes: 1/2" – 1" (15 – 25mm)

For operating pressures up to 250psi (17 bars)

Series WIB Inverted Bucket Steam Traps are designed for reliable condensate removal on virtually all types of steam process equipment including pressing machines, cookers, vats, etc. This series can be used on systems with operating pressures up to 250psi and will drain condensate at saturation temperature. Series WIB Inverted Bucket Traps have an excellent reputation as a long lasting, rugged steam trap, naturally resistant to water hammer.

Features

- In-line connections
- Hardened stainless steel valve and seat
- Cast iron body construction
- Stainless steel bucket
- Test plug
- Drain plug

Models

WIB 80 1/2" – 3/4" (15 – 20mm) for operating pressures up to 150psi (10 bars).

WIB 81 1/2" – 1" (15 – 25mm) for operating pressures up to 250psi (17 bars).

Applications

- Steam lines
- Process equipment
- Steam cookers
- Steam heated vats
- Pressing machinery
- Unit heaters
- Oil preheaters
- Converters
- Coils

Specifications

The inverted bucket steam trap shall be installed as indicated on the plans. The steam trap shall have a maximum pressure of 150psi (WIB 80) or 250psi (WIB 81) and a maximum temperature of 406°F (208°C). The trap body and cover shall be manufactured out of ASTM-A-126-7/Class B cast iron. The valve and seat shall be manufactured out of hardened stainless steel and the bucket and linkage shall be stainless steel. The steam trap shall be a Watts Regulator Company Series WIB.



WIB 80



WIB 81

The logo for Watts Regulator, featuring a stylized 'W' symbol to the left of the text 'WATTS®' in a large, bold font, with 'REGULATOR' in a smaller font below it.

Materials

Body and Cover: Cast Iron ASTM-A-126-7/Class B
 Bucket and Linkage: Stainless Steel
 Valve and Seat: Hardened Stainless Steel
 Standpipe: Steel Pipe
 Cover Gasket: Non-asbestos

Pressure — Temperature

WIB 80

Maximum Allowable Pressure: 150psi (10 bars)
 Maximum Allowable Temperature: 406°F (208°C)
 Maximum Operating Pressure: 150psi (10 bars)

WIB 81

Maximum Allowable Pressure: 250psi (17 bars)
 Maximum Allowable Temperature: 406°F (208°C)
 Maximum Operating Pressure: 250psi (17 bars)

Capacity Chart – WIB 80

DIFFERENTIAL PRESSURE		ORIFICE		MODEL
<i>psi</i>	<i>bars</i>	<i>in.</i>	<i>mm</i>	<i>80</i>
1/4	.02	3/16"	5	139
1/2	.03	3/16"	5	200
3/4	.05	3/16"	5	240
1	.07	3/16"	5	270
2	.14	3/16"	5	340
3	.21	3/16"	5	390
4	.28	3/16"	5	425
5	.35	3/16"	5	450
10	.69	3/16"	5	560
15	1	3/16"	5	640
20	1	3/16"	5	690
25	2	1/8"	3	460
30	2	1/8"	3	500
40	3	1/8"	3	550
50	3	1/8"	3	580
60	4	1/8"	3	635
70	5	1/8"	3	660
80	6	1/8"	3	690
100	7	#38	—	860
125	9	#38	—	950
130	9	#38	—	550
150	10	#38	—	570
180	12	#38	—	—
200	14	#38	—	—
225	16	#38	—	—
250	17	#38	—	—

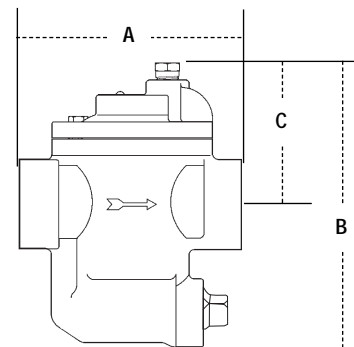
Capacity Chart – WIB 81

DIFFERENTIAL PRESSURE		ORIFICE		MODEL
<i>psi</i>	<i>bars</i>	<i>In.</i>	<i>mm</i>	<i>81</i>
1/4	.02	1/4	8	191
1/2	.03	1/4	8	300
3/4	.05	1/4	8	395
1	.07	1/4	8	450
2	.14	1/4	8	590
3	.21	1/4	8	680
4	.28	1/4	8	750
5	.35	1/4	8	830
10	.69	1/4	8	950
15	1	1/4	8	1,060
20	1	3/16	5	880
25	2	3/16	5	950
30	2	3/16	5	1,000
40	3	5/32	4	770
50	3	5/32	4	840
60	4	5/32	4	900
70	5	5/32	4	950
80	6	1/8	3	800
100	7	1/8	3	860
125	9	1/8	3	950
130	9	1/64	2.7	780
150	10	1/64	2.7	810
180	12	1/64	2.7	850
200	14	1/64	2.7	860
225	16	#38	—	730
250	17	#38	—	760

Note: Capacities given are continuous discharge capacities in pounds of hot condensate per hour at differential indicated.

Dimensions — Weights

MODEL	SIZE (DN)		DIMENSIONS						WEIGHT	
	<i>NPT</i>		<i>A</i>		<i>B</i>		<i>C</i>		<i>lbs.</i>	<i>kgs.</i>
	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>	<i>in.</i>	<i>mm</i>		
WIB-80	1/2	15	5	127	8 1/8	206	3 1/4	83	5.5	2.5
WIB-80	3/4	20	5	127	8 1/8	206	3 1/4	83	5.5	2.5
WIB-81	1/2	15	5	127	7 5/8	194	3 1/4	83	6	2.7
WIB-81	3/4	20	5	127	7 5/8	194	3 1/4	83	6	2.7
WIB-81	1	25	5	127	7 5/8	194	3 1/4	83	6	2.7



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