

Space limitations do not permit the insertion of complete efficiency tables, pipe sizes, insulation thickness, etc. If you do not find the size you want, write to the nearest Johns-Manville Division sales office.

JOHNS-MANVILLE 85 PER CENT MAGNESIA INSULATION

An efficient insulation for steam lines to 600 deg. Fahr.

EFFICIENCIES

Pipe Size Inches	Nominal Insulation Thickness Inches		Temperature Difference Between Pipe and Surrounding Air, Deg. Fahr.											
			100°		200°		300°		400°					
			Temperature of Pipe, Deg. Fahr. (Temperature of Surrounding Air, 75 Deg.)						500°					
			175°						275°		375°		475°	
Heat losses per linear foot of bare pipe per hour and Efficiencies of insulation														
1	0	Bare Pipe Loss, B.t.u.	74.0	183.4	337.4	555.2	891.0							
	Std.	Efficiency %	68.7	73.7	77.7	81.1	84.0							
	2	"	78.4	82.0	84.8	87.3	89.5							
2	0	Bare Pipe Loss, B.t.u.	133.9	331.5	608.3	1003.9	1611.0							
	Std.	Efficiency %	76.7	80.5	83.3	85.7	88.2							
	2	"	83.3	85.9	88.2	90.2	91.7							
3	0	Bare Pipe Loss, B.t.u.	197.3	488.8	896.8	1480.0	2375.0							
	Std.	Efficiency %	78.8	82.3	84.8	87.1	89.3							
	2	"	85.2	87.7	89.6	91.4	92.9							
4	0	Bare Pipe Loss, B.t.u.	253.5	627.9	1152.1	1901.3	3051.0							
	Std.	Efficiency %	81.7	84.5	86.9	89.1	90.8							
	2	"	86.4	88.7	90.5	92.1	93.4							
6	0	Bare Pipe Loss, B.t.u.	371.9	923.7	1694.9	2797.1	4488.5							
	Std.	Efficiency %	82.7	85.4	87.6	89.7	91.3							
	2	"	87.8	89.8	91.3	92.8	94.0							
8	0	Bare Pipe Loss, B.t.u.	485.7	1203.0	2207.3	3642.8	5845.6							
	Std.	Efficiency %	83.7	86.2	88.4	90.2	91.9							
	2	"	88.4	90.3	91.8	93.1	94.3							
10	0	Bare Pipe Loss, B.t.u.	611.1	1522.2	2797.3	4688.5	7591.0							
	Std.	Efficiency %	84.7	87.0	88.8	90.4	91.7							
	2	"	89.6	91.2	92.4	93.4	94.6							
12	0	Bare Pipe Loss, B.t.u.	740.0	1834.0	3374.0	5552.0	8910.0							
	Std.	Efficiency %	85.0	87.0	88.0	89.0	90.0							
	2	"	89.5	91.0	92.0	93.0	94.0							

JOHNS-MANVILLE ASBESTO-SPONGE FELTED INSULATION

For insulating high pressure and superheated steam lines to 750 deg. Fahr.

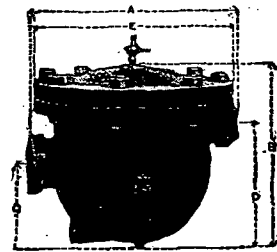
EFFICIENCIES

EFFICIENCIES OF INSULATION							
Pipe Size Inches	Nominal Insulation Thickness Inches		Temperature Difference Between Pipe and Surrounding Air, Deg. Fahr.				
			100°	200°	300°	400°	500°
			Temperature of Pipe, Deg. Fahr. (Temperature of Surrounding Air, 75 Deg.)				
			175°	275°	375°	475°	575°
			Heat losses per linear foot of bare pipe per hour and Efficiencies of insulation				
1	0	Bare Pipe Loss, B.t.u.	74.0	183.4	337.4	555.2	891.0
	1	Efficiency %	76.5	79.9	82.6	85.2	87.4
	2	"	80.7	83.6	85.8	87.8	90.0
2	0	Bare Pipe Loss, B.t.u.	133.9	331.5	608.3	1003.9	1611.0
	1	Efficiency %	80.4	83.3	85.5	87.6	89.3
	2	"	85.1	87.2	89.0	90.6	92.1
3	0	Bare Pipe Loss, B.t.u.	197.3	488.8	896.8	1480.0	2375.0
	1	Efficiency %	82.2	84.9	86.8	88.8	90.3
	2	"	86.8	88.8	90.3	91.7	93.2
4	0	Bare Pipe Loss, B.t.u.	253.5	627.9	1152.1	1901.3	3051.0
	1	Efficiency %	83.3	85.6	87.6	89.5	90.9
	2	"	87.9	89.7	91.1	92.4	93.7
6	0	Bare Pipe Loss, B.t.u.	371.9	923.7	1694.9	2797.1	4488.5
	1	Efficiency %	84.2	86.5	88.3	90.1	91.4
	2	"	89.1	90.7	91.9	93.1	94.3
8	0	Bare Pipe Loss, B.t.u.	485.7	1203.0	2207.3	3642.8	5845.6
	1	Efficiency %	84.8	87.0	88.7	90.4	91.7
	2	"	89.6	91.2	92.4	93.4	94.6
10	0	Bare Surface) B.t.u.	215.2	533.0	978.0	1614.0	2590.0
	1	Efficiency %	84.17	86.50	88.38	90.10	91.73
	2	"	91.32	92.61	93.61	94.55	95.44
3	"	"	94.02	94.90	95.59	96.23	96.84

JOHNS-MANVILLE STEAM TRAPS

Type A (Cast Iron)

The simplicity of the Johns-Manville Steam Trap practically eliminates all possibility of its getting out of order. It has and requires no adjustments, and consists of only three parts—the body, discharge bushing and rolling ball, the latter being the only part that moves.



Cast Iron Models

Trap No.	Pipe Size Inches	Capacity Pounds of Water per Hour	Dimensions in Inches (See Diagram)					Weight Lbs.
			A	B	C	D	E	
2-A	3/4	700	7 1/2	6	2 1/2	3 1/4	6 1/4	14 1/4
3-A	1	1000	8 1/4	7 1/8	3 1/2	4 1/2	8	23
4-A	1 1/4	1700	10 1/8	8 5/8	4 1/8	5 1/4	10 1/4	47
5-A	1 1/2	3500	12 1/4	11 1/4	5 1/8	7 1/2	12 1/2	85
6-A	2	6000	14 1/2	13	6 1/8	8 1/8	14 1/4	126

JUNIOR MODEL (Bronze)

For steam pressures to 50 lbs. 1/2 in. outlet and inlet pipe connections. Bushings for pressures from 1 to 10 lbs. and 10 to 50 lbs.

Trap	Pipe Size, Inches	Pressure Range Pounds	Capacity, Pounds of water per Hour
Junior	1/2	1-10	10-50

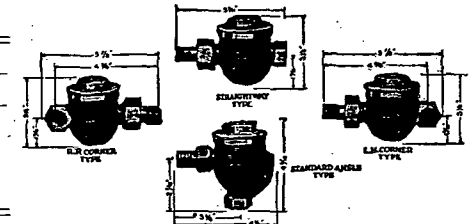
4 1/4 inches long by 3 3/8 inches high; weight, 2 pounds, 6 ozs.

RADIATOR TRAPS (Bronze and Nickel Finishes)

For steam pressures to 10 lbs.—on open (atmospheric) or vacuum return line heating systems. For use on cast iron heating radiators only.

WEIGHTS

Style	Pipe Connection	
	1/2"	3/4"
Standard	2 lb., 5 oz.	2 lb., 7 oz.
Straight-way	2 lb., 3 oz.	2 lb., 6 oz.
Corner	2 lb., 4 oz.	



JOHNS-MANVILLE UNDERGROUND SYSTEM OF INSULATION

A specially salt glazed and highly vitrified tile conduit is used as a waterproof envelope to protect the insulation—Johns-Manville Asbesto-Sponge Conduit Filling, is packed around the piping to be insulated and completely fills the conduit.

The cast iron roll frame used is installed in a mortar or concrete bed and is set at the proper elevation from an overhead batter-board line. This method prevents uneven alignment of the pipes by irregularity in the manufacture of the conduit, etc.

The insulation used to surround the pipe is made of asbestos fibre and material of a sponge-like nature, which when properly mixed with the asbestos, forms the most efficient and durable insulation for underground work.

The underdrain laid with open joints carries away the water that rapidly filters away from the system through the broken stone or gravel in which the lower half of the system and the underdrain itself is laid.

Shutters for sealing the ends of the system, manhole and anchor pits are incidental but necessary, and are placed according to conditions and requirements as recommended by our engineers.