

# WHISTLES & WHISTLE VALVES

## FOR STEAM OR AIR

These Lunkenheimer bronze whistles and whistle / valve assemblies are made of ASTM B61 type S-1 steam bronze. Can be operated by either steam or compressed air. Plain whistle models available with or without valve. Figure 442 may be used with Figure 444 Lunkenheimer whistle valves.

Whistles work best on boats or rooftops of buildings where there is the less chance of sound interference. Minimum pressure and

boiler horsepower required for each size whistle for steam service, or the volume of compressed air for each size whistle for air service is shown in the tables below. If whistle will be used frequently or for long periods of time, a larger volume of steam or air will be necessary.

**Installation note:** Whistle supply piping should be a separate line used for no other purpose and

should at least equal size of whistle's inlet connection.

All plain bell whistles are provided with the means to regulate the distance between the power escape slot in the base and the bottom edge of the bell.

**Ordering information:** When ordering whistles specify both bell diameter and size of the pipe connection.



### Operating information-Steam Dimensions in inches Weights in pounds

Diameter of Bell (inches)	1	1½	2	3	3½	4	6
Pipe Connection (Inches)	¼	⅜	½	¾	1	1¼	1½
Minimum Operating Boiler Horsepower	10	20	30	60	75	100	250
Minimum Working Steam Pressure (PSI)	10	10	12	15	20	35	70
Fig 441, Plain Whistle with valve – Wts	0.9	1.4	2.9	6.4	9.5	13.0	30.0
Fig 442, Plain Whistle – Wts	0.5	1.0	2.1	4.8	7.4	9.5	26.0

### Operating information – Air

Minimum Air Pressure (PSI)	5	5	8	15	20	25	35
Normal Air Pressure (PSI)	40	40	40	50	50	60	70
Free Air Required per Second at Normal Pressures (Cubic Feet)	.41	.45	.91	2.7	5.1	6.8	12
Typical Frequency CPS	1640	1105	780	515	435	385	255
Typical Range Miles	.25	.33	.5	.8	1.0	1.4	2.8

### Dimensions in inches Weights in pounds

Size	¼	⅜	½	¾	1	1¼	1½	2
End to End	2 <sup>3</sup> / <sub>32</sub>	2 <sup>3</sup> / <sub>16</sub>	2½	2 <sup>31</sup> / <sub>32</sub>	3 <sup>7</sup> / <sub>16</sub>	3 <sup>31</sup> / <sub>32</sub>	4 <sup>3</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>16</sub>
Center Line of Valve to Center Line of Fulcrum Pin	1 <sup>5</sup> / <sub>16</sub>	1 <sup>5</sup> / <sub>16</sub>	1 <sup>13</sup> / <sub>32</sub>	2 <sup>1</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>16</sub>	2 <sup>13</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	3 <sup>11</sup> / <sub>16</sub>
Length of Lever from Center Line of Fulcrum Pin	3 <sup>3</sup> / <sub>16</sub>	3 <sup>3</sup> / <sub>16</sub>	4½	5 <sup>11</sup> / <sub>16</sub>	6 <sup>15</sup> / <sub>16</sub>	6 <sup>15</sup> / <sub>16</sub>	8¼	12½
Fig 444, Wts	0.6	0.7	1.0	1.9	2.8	3.9	5.6	9.5

