



Section IV
Heating Boilers

14-200 Series Low Pressure Steam Boiler Safety Valves

ASME Section IV
Set pressures from 5 to 15 psig.
Sizes 2", 2-1/2" and 3".



Applications:

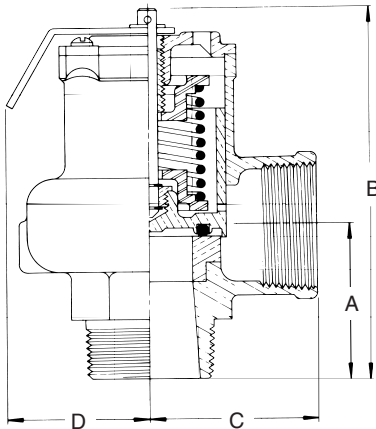
The 14 Series is an ASME Section IV high capacity steam safety valve for use with medium and large size commercial and industrial heating boilers.

Features

- One piece body, all bronze construction
- Rust proofed steel spring
- Chrome plated seat, PTFE coated disc
- PTFE coated EPDM O-ring for positive seal
- 3/8" NPT side tapping for drain connection
- Valves are capacity certified by the National Board at 15 psig only, in accordance with ASME Boiler and Pressure Vessel Code Section IV
- Registered in all Canadian provinces and territories, CRN #0G8547.5C

Options

- Test gag available to prevent the valve from opening during hydrostatic testing of the boiler. To specify gag option, add "G" to suffix.



Dimensions and Weights

| Model Number | Size (in./mm.) | | Dimensions (in./mm.) | | | | Wt./Each (lbs./kg.) |
|--------------|----------------|--------|----------------------|------|------|------|---------------------|
| | Inlet | Outlet | A | B | C | D | |
| 14-205 | 2M | 2F | 3.00 | 7.12 | 3.12 | 4.00 | 8.4 |
| | 50M | 50F | 76 | 181 | 79 | 101 | 3.8 |
| 14-206 | 2-1/2M | 2-1/2F | 3.50 | 8.25 | 3.50 | 4.00 | 13.0 |
| | 65M | 65F | 88 | 209 | 88 | 101 | 5.9 |
| 14-207 | 3M | 3F | 4.12 | 9.37 | 3.87 | 4.00 | 17.0 |
| | 80M | 80F | 104 | 238 | 98 | 101 | 7.7 |

NOTE: See Capacities page 15

P/N Suffix Key

| Set Pressure psig | Suffix |
|-------------------|--------|
| 5 | -03 |
| 6 | -04 |
| 8 | -05 |
| 10 | -06 |
| 12 | -07 |
| 15 | -08 |

NOTE:

- ASME IV and NB certified capacities at 15 psi only
- Valves may be set for any pressure between 5 and 15 psi. Consult factory for set pressures not listed.
- To specify test gag option add "G" to suffix.

ORDERING CODE:

Use model number and two digit suffix number to indicate size and set pressure.

EXAMPLE:

14-206-08: 2-1/2" valve set at 15 psi

12, 13 and 14-200 Series Capacities



ASME Section IV Steam

POUNDS PER HOUR (KILOGRAMS PER HOUR) SATURATED STEAM AT 33-1/3%
OVERPRESSURE. NATIONAL BOARD CERTIFIED. RATINGS ARE 90% OF ACTUAL.



| U.S. Customary Units lbs./hr. | | | | | | |
|--------------------------------------|-------------------------|-------------------------|-------------------------------|-----------------|-------------------------|---------------------|
| Model No. | 12-205 2 x 2 | 12-206 2-1/2 x 2-1/2 | 12-208 3 x 3 | 13-101 3/4 | 13-202 1 x 1 | 13-211 3/4 x 3/4 |
| Set Pressure | | | | | | |
| psig | | | | | | |
| 5* | 1,439 | 2,043 | 2,855 | 333 | 374 | 290 |
| 10* | 1,969 | 2,786 | 3,478 | 372 | 509 | 383 |
| 15 | 2,500 | 3,529 | 4,100 | 410 | 643 | 475 |
| Model No. | 13-213 1-1/4 x 1-1/2 | 13-214 1-1/2 x 2 | 13-511 13-512 3/4 x 3/4 | 14-205 2 x 2 | 14-206 2-1/2 x 2-1/2 | 14-207 3 x 3 |
| Set Pressure | | | | | | |
| psig | | | | | | |
| 5* | 699 | 1,106 | 213 | 1,815 | 2,695 | 3,944 |
| 10* | 950 | 1,503 | 310 | 2,483 | 3,686 | 5,394 |
| 15 | 1,200 | 1,900 | 407 | 3,150 | 4,676 | 6,843 |

| Metric Units kg./hr. | | | | | | |
|-----------------------------|-------------------------|-------------------------|-------------------------------|-----------------|-------------------------|---------------------|
| Model No. | 12-205 2 x 2 | 12-206 2-1/2 x 2-1/2 | 12-208 3 x 3 | 13-101 3/4 | 13-202 1 x 1 | 13-211 3/4 x 3/4 |
| Set Pressure | | | | | | |
| barg | | | | | | |
| 0.34 | 653 | 927 | 1,295 | 151 | 170 | 131 |
| 0.69 | 893 | 1,264 | 1,577 | 169 | 231 | 174 |
| 1.03 | 1,134 | 1,601 | 1,860 | 186 | 292 | 215 |
| Model No. | 13-213 1-1/4 x 1-1/2 | 13-214 1-1/2 x 2 | 13-511 13-512 3/4 - 3/4 | 14-205 2 x 2 | 14-206 2-1/2 x 2-1/2 | 14-207 3 x 3 |
| Set Pressure | | | | | | |
| barg | | | | | | |
| 0.34 | 317 | 502 | 97 | 823 | 1,222 | 1,789 |
| 0.69 | 431 | 682 | 141 | 1,126 | 1,672 | 2,447 |
| 1.03 | 544 | 862 | 185 | 1,429 | 2,121 | 3,103 |

*ASME Section IV and NB certified capacities at 15 psi only.

Valves may be set for any pressure between 5 and 15 psi. Consult factory for set pressures not listed.

Pressure Relief Valve Selection Chart

| Model | Material Body / Trim | Inlet Sizes | | Connections | | CE/PED Available | Set Pressures | | Temperature | |
|---|--------------------------|----------------|----------------|-------------|---------|---------------------|-----------------|------------------|-------------|---------|
| | | Min / Max, in. | Min / Max, mm. | NPT | Flanged | | Min / Max, PSIG | Min / Max, barg | Max, °F | Max, °C |
| ASME Section I - Steam Power Boilers | | | | | | | | | | |
| 19M | Bronze / Brass | 1/2 - 2 1/2 | DN 15 - 65 | X | | X | 15 - 250 | 1.0 - 17.2 | 406°F | 207.7°C |
| 19K | Bronze / Brass | 1/2 - 2 1/2 | DN 15 - 65 | X | | X | 15 - 250 | 1.0 - 17.2 | 406°F | 207.7°C |
| 19L | Bronze / Stainless | 1/2 - 2 1/2 | DN 15 - 65 | X | | X | 15 - 250 | 1.0 - 17.2 | 406°F | 207.7°C |
| 19S | Bronze / Stainless | 1/2 - 2 1/2 | DN 15 - 65 | X | | X | 15 - 300 | 1.0 - 20.7 | 422°F | 216.7°C |
| 29 | Bronze / Brass | 3/8 - 1 1/4 | DN 10 - 32 | X | | X | 30 - 200 | 2.0 - 13.8 | 406°F | 207.7°C |
| 119 | Cast Iron / Stainless | 1-1/2 - 6 | DN 40 - 150 | X | X | X | 15 - 250 | 1.0 - 17.2 | 450°F | 232.2°C |
| ASME Section IV - Low Pressure Steam Heating Boilers | | | | | | | | | | |
| 12 | Bronze / Brass | 2 - 3 | DN 50 - 80 | X | | | 5 - 15 | 0.34 - 1.0 | 250°F | 121.1°C |
| 13-101 | Bronze / Brass | 3/4 | DN 20 | X | | | 5 - 15 | 0.34 - 1.0 | 250°F | 121.1°C |
| 13-202 | Bronze / Brass | 1 | DN 25 | X | | | 5 - 15 | 0.34 - 1.0 | 250°F | 121.1°C |
| 13-211 | Bronze / Brass | 3/4 | DN 20 | X | | | 5 - 15 | 0.34 - 1.0 | 250°F | 121.1°C |
| 13-213 | Bronze / Brass | 1-1/4 | DN 32 | X | | | 5 - 15 | 0.34 - 1.0 | 250°F | 121.1°C |
| 13-214 | Bronze / Brass | 1-1/2 | DN 40 | X | | | 5 - 15 | 0.34 - 1.0 | 250°F | 121.1°C |
| 13-510 | Bronze / Brass | 3/4 | DN 20 | X | | | 5 - 15 | 0.34 - 1.0 | 250°F | 121.1°C |
| 14-200 | Bronze / Brass | 2 - 3 | DN 50 - 80 | X | | | 5 - 15 | 0.34 - 1.0 | 250°F | 121.1°C |
| ASME Section IV - Hot Water Heating & Supply Boilers | | | | | | | | | | |
| 10-100 | Bronze / Brass | 3/4 | DN 20 | X | | | 20 - 65 | 1.4 - 4.5 | 250°F | 121.1°C |
| 10-300 | Bronze / Brass | 3/4 | DN 20 | X | | | 20 - 65 | 1.4 - 4.5 | 250°F | 121.1°C |
| 10-400 | Bronze / Brass | 3/4 | DN 20 | X | | | 30 | 2.0 | 250°F | 121.1°C |
| 10-410 | Bronze / Brass | 3/4 | DN 20 | X | | | 20 - 80 | 1.4 - 5.5 | 250°F | 121.1°C |
| 10-600, 10-610 | Bronze / Brass | 3/4 - 2 | DN 20 - 50 | X | | X | 15 - 160 | 1.0 - 11.0 | 250°F | 121.1°C |
| 10-624, 10-634 | Bronze / Brass | 3/4 | DN 20 | X | | | 30 - 150 | 2.0 - 10.3 | 250°F | 121.1°C |
| 17-401 | Bronze / Brass | 1/2 | DN 15 | X | | | 75 - 160 | 5.2 - 11.0 | 250°F | 121.1°C |
| 17-402 | Bronze / Brass | 3/4 | DN 20 | X | | | 75 - 150 | 5.2 - 10.3 | 250°F | 121.1°C |
| 18C-400 | Bronze / Brass | 1/2 - 3/4 | DN 15 - 20 | X | | | 125 - 175 | 8.61 - 12.1 | 210°F | 98.9°C |
| 18-500 | Bronze / Stainless | 3/4 - 2 | DN 20 - 50 | X | | | 75 - 150 | 5.2 - 10.3 | 210°F | 98.9°C |
| ASME Section VIII Air / Gases | | | | | | | | | | |
| 15 | Brass | 1/4 - 1 | DN 8 - 25 | X | | X | 15 - 250 | 1.0 - 17.2 | 325°F | 162.8°C |
| 19M | Bronze / Brass | 1/2 - 2-1/2 | DN 15 - 65 | X | | X | 8 - 300 | 0.55 - 20.7 | 406°F | 207.7°C |
| 19K | Bronze / Brass | 1/2 - 2-1/2 | DN 15 - 65 | X | | X | 15 - 300 | 1.0 - 20.7 | 406°F | 207.7°C |
| 19L | Bronze / Stainless | 1/2 - 2-1/2 | DN 15 - 65 | X | | X | 15 - 300 | 1.0 - 20.7 | 406°F | 207.7°C |
| 19S | Bronze / Stainless | 1/2 - 2-1/2 | DN 15 - 65 | X | | X | 8 - 300 | 0.55 - 20.7 | 422°F | 216.7°C |
| 29 | Bronze / Brass | 3/8 - 1-1/4 | DN 10 - 32 | X | | X | 30 - 200 | 2.0 - 13.8 | 406°F | 207.7°C |
| 119 | Cast Iron / Stainless | 1-1/2 - 6 | DN 40 - 150 | X | X | X | 8 - 250 | 0.55 - 17.2 | 450°F | 232.2°C |
| 510 | Bronze / Brass | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 300 | 0.55 - 20.7 | 406°F | 207.7°C |
| 520 | Bronze / Stainless | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 1200 | 0.55 - 82.7 | 422°F | 216.7°C |
| 530 | Steel / Stainless | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 1200 | 0.55 - 82.7 | 800°F | 426.7°C |
| 540 | Stainless / Stainless | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 1200 | 0.55 - 82.7 | 800°F | 426.7°C |
| ASME Section VIII Steam | | | | | | | | | | |
| 10-322 | Brass | 3/4 | DN 20 | X | | X | 15 - 60 | 1.0 - 4.1 | 325°F | 162.8°C |
| 10-512 | Brass | 1/2 | DN 15 | X | | X | 9 - 60 | 0.62 - 4.1 | 325°F | 162.8°C |
| 19M | Bronze / Brass | 1/2 - 2-1/2 | DN 15 - 65 | X | | X | 8 - 250 | 0.55 - 17.2 | 406°F | 207.7°C |
| 19K | Bronze / Brass | 1/2 - 2-1/2 | DN 15 - 65 | X | | X | 15 - 250 | 1.0 - 17.2 | 406°F | 207.7°C |
| 19L | Bronze / Stainless | 1/2 - 2-1/2 | DN 15 - 65 | X | | X | 15 - 250 | 1.0 - 17.2 | 406°F | 207.7°C |
| 19S | Bronze / Stainless | 1/2 - 2-1/2 | DN 15 - 65 | X | | X | 8 - 300 | 0.55 - 20.7 | 422°F | 216.7°C |
| 29 | Bronze / Brass | 3/8 - 1-1/4 | DN 10 - 32 | X | | X | 30 - 200 | 2.0 - 13.8 | 406°F | 207.7°C |
| 119 | Cast Iron / Stainless | 1-1/2 - 6 | DN 40 - 150 | X | X | X | 8 - 250 | 0.55 - 17.2 | 450°F | 232.2°C |
| 510 | Bronze / Brass | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 250 | 0.55 - 17.2 | 406°F | 207.7°C |
| 520 | Bronze / Stainless | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 300 | 0.55 - 20.7 | 422°F | 216.7°C |
| 530 | Steel / Stainless | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 900 | 0.55 - 62.1 | 800°F | 426.7°C |
| 540 | Stainless / Stainless | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 900 | 0.55 - 62.1 | 800°F | 426.7°C |
| ASME Section VIII Liquid | | | | | | | | | | |
| 510 | Bronze / Brass | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 300 | 0.55 - 20.7 | 406°F | 207.7°C |
| 520 | Bronze / Stainless | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 1200 | 0.55 - 82.7 | 422°F | 216.7°C |
| 530 | CS / Stainless | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 1200 | 0.55 - 82.7 | 800°F | 426.7°C |
| 540 | Stainless / Stainless | 1/2 - 2 | DN 15 - 50 | X | | X | 8 - 1200 | 0.55 - 82.7 | 800°F | 426.7°C |
| Non-Code, Vacuum & Miscellaneous Products | | | | | | | | | | |
| 14-400, 14-500 | Low Pressure Air | 2 - 3 | DN 50 - 80 | X | | | 4 - 22 | 0.3 - 1.52 | 400°F | 204.4°C |
| 14-600 | Vacuum Relief | 2 - 3 | DN 50 - 80 | X | | | 8 - 30 HG | 203 - 762 mm. HG | 400°F | 204.4°C |
| 16-200 | Liquids | 1/2 | DN 15 | X | | | 30 - 80 | 2.1 - 12.4 | 120°F | 48.9°C |
| 16-501 | Adj. Liquid Bypass | 1/2 | DN 15 | X | | | 0 - 600 | 0 - 41.4 | 200°F | 93.3°C |
| 16-503, 16-504 | Calibrated Liquid Relief | 1/2 - 3/4 | DN 15 - 20 | X | | | 50 - 175 | 3.4 - 12.1 | 200°F | 93.3°C |
| Drip Pan Elbows | Steam Discharge | 3/4 - 8 | DN 20 - 200 | X | X | | N/A | N/A | 450°F | 232.2°C |

Correction Factors

AIR AND GAS TEMPERATURE CORRECTION FACTORS

To correct for temperatures other than 60°F at the valve inlet, multiply the SCFM from the capacity tables by factor K_t .

| Temp °F | K_t | Temp °F | K_t | Temp °F | K_t | Temp °F | K_t |
|---------|-------|---------|-------|---------|-------|---------|-------|
| 0 | 1.063 | 90 | 0.972 | 260 | 0.850 | 440 | 0.760 |
| 10 | 1.052 | 100 | 0.964 | 280 | 0.838 | 460 | 0.752 |
| 20 | 1.041 | 120 | 0.947 | 300 | 0.827 | 480 | 0.744 |
| 30 | 1.030 | 140 | 0.931 | 320 | 0.816 | 500 | 0.737 |
| 40 | 1.020 | 160 | 0.916 | 340 | 0.806 | 550 | 0.718 |
| 50 | 1.010 | 180 | 0.901 | 360 | 0.796 | 600 | 0.701 |
| 60 | 1.000 | 200 | 0.888 | 380 | 0.787 | 650 | 0.685 |
| 70 | 0.991 | 220 | 0.874 | 400 | 0.778 | 700 | 0.669 |
| 80 | 0.981 | 240 | 0.862 | 420 | 0.769 | 750 | 0.656 |

GAS AND LIQUID RELATIVE DENSITY CORRECTION FACTORS

To correct for a specific gravity other than air or water (=1.0) multiply the SCFM or GPM from the capacity tables by factor K_{sg} .

| Specific Gravity | K_{sg} | Specific Gravity | K_{sg} | Specific Gravity | K_{sg} | Specific Gravity | K_{sg} |
|------------------|----------|------------------|----------|------------------|----------|------------------|----------|
| 0.10 | 3.160 | 0.75 | 1.155 | 1.25 | 0.913 | 2.50 | 0.633 |
| 0.20 | 2.240 | 0.80 | 1.117 | 1.30 | 0.877 | 3.00 | 0.577 |
| 0.30 | 1.825 | 0.90 | 1.085 | 1.40 | 0.845 | 3.50 | 0.535 |
| 0.40 | 1.580 | 0.95 | 1.025 | 1.50 | 0.817 | 4.00 | 0.500 |
| 0.50 | 1.414 | 1.00 | 1.00 | 1.60 | 0.791 | 4.50 | 0.471 |
| 0.55 | 1.350 | 1.05 | 0.975 | 1.70 | 0.768 | | |
| 0.60 | 1.290 | 1.10 | 0.955 | 1.80 | 0.745 | | |
| 0.65 | 1.240 | 1.15 | 0.933 | 1.90 | 0.725 | | |
| 0.70 | 1.195 | 1.20 | 0.913 | 2.00 | 0.707 | | |

Equivalents and Conversion Factors

This table may be used in two ways:

- (1) Multiply the unit under column A by the figure under column B, the result is the unit under column C.
- (2) Divide the unit under column C by the figure under column B, the result is then the unit under column A.

| A MULTIPLY | B BY | C TO OBTAIN |
|------------------------------|-------------|-------------------------------------|
| Atmospheres | 14.70 | Pounds per square inch |
| Atmospheres | 1.033 | Kilograms per sq. cm. |
| Atmospheres | 29.92 | Inches of mercury |
| Atmospheres | 760.0 | Millimeters of mercury |
| Atmospheres | 407.5 | Inches of water |
| Atmospheres | 33.96 | Feet of water |
| Atmospheres | 1.013 | Bars |
| Atmospheres | 101.3 | KiloPascals |
| Barrels | 42.00 | Gallons (U.S.) |
| Bars | 14.50 | Pounds per square inch |
| Bars | 1.020 | Kilograms per sq. cm |
| Bars | 100.0 | KiloPascals |
| Centimeters | 0.3937 | Inches |
| Centimeters | 0.03281 | Feet |
| Centimeters | 0.010 | Meters |
| Centimeters | 0.01094 | Yards |
| Cubic centimeters | 0.06102 | Cubic yards |
| Cubic feet | 7.481 | Gallons |
| Cubic feet | 0.1781 | Barrels |
| Cubic feet per minute | 0.02832 | Cubic meters per minute |
| Cubic feet per second | 448.8 | Gallons per minute |
| Cubic inches | 16.39 | Cubic centimeters |
| Cubic inches | 0.004329 | Gallons |
| Cubic meters | 264.2 | Gallons |
| Cubic meters per hour | 4.403 | Gallons per minute |
| Cubic meters per minute | 35.31 | Cubic feet per minute |
| Standard cubic feet per min. | 60.00 | Standard cubic ft. per hr |
| Standard cubic feet per min. | 1440. | Standard cubic ft. per day |
| Standard cubic feet per min. | 0.02716 | Nm ³ /min. (0°C, 1 Bara) |
| Standard cubic feet per min. | 1.630 | Nm ³ /hr. (0°C, 1 Bara) |
| Standard cubic feet per min. | 39.11 | Nm ³ /day. (0°C, 1 Bara) |
| Standard cubic feet per min. | 0.02832 | Sm ³ /min. |
| Standard cubic feet per min. | 1.699 | Sm ³ /hr. |
| Standard cubic feet per min. | 40.78 | Sm ³ /day. |
| Feet | 0.3048 | Meters |
| Feet | 0.3333 | Yards |
| Feet | 30.48 | Centimeters |
| Feet of water (68°F) | 0.8812 | Inches of mercury (0°C) |
| Feet of water (68°F) | 0.4328 | Pounds per square inch |
| Gallons (U.S.) | 3785. | Cubic centimeters |
| Gallons (U.S.) | 0.1337 | Cubic feet |
| Gallons (U.S.) | 231.0 | Cubic inches |
| Gallons (Imperial) | 277.4 | Cubic inches |
| Gallons (U.S.) | 0.8327 | Gallons (Imperial) |
| Gallons (U.S.) | 3.785 | Liters |
| Gallons of water (60°F) | 8.337 | Pounds |
| Gallons of liquid per minute | 500xSp. Gr. | Pounds per hour liquid |
| Gallons per minute | 0.002228 | Cubic feet per second |
| Gallons per minute (60°F) | 227.0xSG | Kilograms per hour |
| Gallons per minute | .06309 | Liters per second |
| Gallons per minute | 3.785 | Liters per minute |
| Gallons per minute | .2271 | M ³ /hr. |
| Grams | .03527 | Ounces |
| Inches | 2.540 | Centimeters |
| Inches | 0.08333 | Feet |
| Inches | 0.0254 | Meters |
| Inches | 0.02778 | Yards |
| Inches of mercury (0°C) | 1.135 | Feet of water (68°F) |
| Inches of mercury (0°C) | 0.4912 | Pounds per square inch |
| Inches of mercury (0°C) | 0.03342 | Atmospheres |
| Inches of mercury (0°C) | 0.03453 | Kilograms per sq. cm |
| Inches of water (68°F) | 0.03607 | Pounds per sq. in. |
| Inches of water (68°F) | 0.07343 | Inches of mercury (0°C) |
| Kilograms | 2.205 | Pounds |
| Kilograms | 0.001102 | Short tons (2000 lbs.) |

| A MULTIPLY | B BY | C TO OBTAIN |
|-------------------------------------|--------------|-------------------------------------|
| Kilograms | 35.27 | Ounces |
| Kilograms per minute | 132.3 | Pounds per hour |
| Kilograms per sq. cm. | 14.22 | Pounds per sq. in. |
| Kilograms per sq. cm. | 0.9678 | Atmospheres |
| Kilograms per sq. cm | 28.96 | Inches of mercury |
| Kilograms per cubic meter | 0.0624 | Pounds per cubic foot |
| KiloPascals | 0.1450 | Pounds per sq. in. |
| KiloPascals | 0.0100 | Bars |
| KiloPascals | 0.01020 | Kilograms per sq. cm |
| Liters | 0.03531 | Cubic feet |
| Liters | 1000. | Cubic centimeters |
| Liters | 0.2642 | Gallons |
| Liters per hour | 0.004403 | Gallons per minute |
| MegaPascals | 145.038 | PSI |
| Meters | 3.281 | Feet |
| Meters | 1.094 | Yards |
| Meters | 100.0 | Centimeters |
| Meters | 39.97 | Inches |
| Pounds | 0.1199 | Gallons H2O @ 60°F (US) |
| Pounds | 453.6 | Grams |
| Pounds | 0.0005 | Short tons (2000 lbs.) |
| Pounds | 0.4536 | Kilograms |
| Pounds | 0.0004536 | Metric tons |
| Pounds | 16.00 | Ounces |
| Pounds per hour | 6.324/M.W. | SCFM |
| Pounds per hour | .4536 | Kilograms per hour |
| Pounds per hour liquid | 0.002/Sp.Gr. | Gallons per minute liquid (at 60°F) |
| Pounds per sq. inch | 27.73 | Inches of water (68°F) |
| Pounds per sq. inch | 2.311 | Feet of water (68°F) |
| Pounds per sq. inch | 2.036 | Inches of mercury (0°C) |
| Pounds per sq. inch | 0.07031 | Kilograms per sq. cm. |
| Pounds per sq. inch | 0.0680 | Atmospheres |
| Pounds per sq. inch | 51.71 | Millimeters of mercury (0°C) |
| Pounds per sq. inch | 0.7043 | Meters of water (68°F) |
| Pounds per sq. inch | 0.06895 | Bar |
| Pounds per sq. inch | 6.895 | KiloPascals |
| Specific gravity (of gas or vapors) | 28.97 | Molecular weight (of gas or vapors) |
| Square centimeter | 0.1550 | Square inch |
| Square inch | 6.4516 | Square centimeter |
| Square inch | 645.16 | Square millimeter |
| SSU | 0.2205 x SG | Centipoise |
| SSU | 0.2162 | Centistoke |
| Water (cubic feet @ 60F) | 62.37 | Pounds |
| Temperature: | | |
| Centigrade | = | 5/9 (Fahrenheit - 32) |
| Kelvin | = | Centigrade + 273 |
| Fahrenheit | = | 9/5 (Centigrade) +32 |
| Fahrenheit | = | Rankine - 460 |
| Fahrenheit | = | (9/5 Kelvin) - 460 |

| A MULTIPLY | B BY | C TO OBTAIN |
|----------------------|---------|----------------|
| Horsepower of boiler | 33,479 | Btu/hr |
| Watts/hour | 3.412 | Btu/hr |
| Kilowatts/hour | 3,412 | Btu/hr |
| Pounds of steam/hour | 1,000 | Btu/hr |
| MBH | 1,000 | Btu/hr |