

Series 560 & 570

Pressure Safety Valves

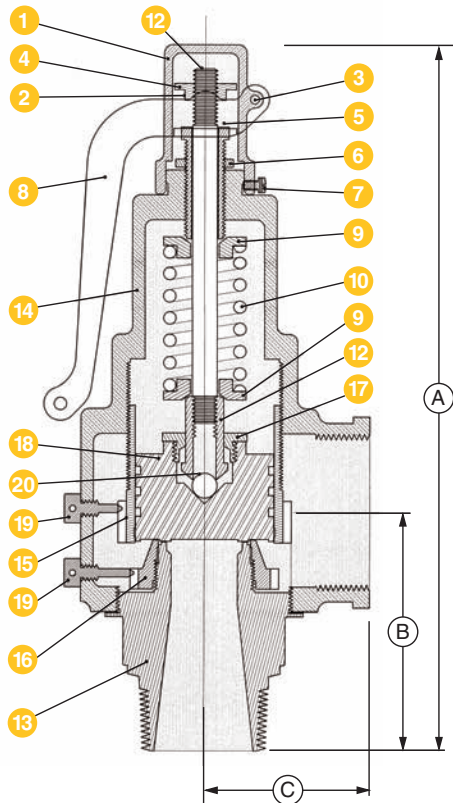
ASME Section I (560) & VIII (570)

NB Certified for Air, Gas and Steam



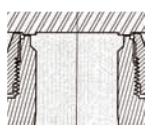
APPLICATIONS INCLUDE:

Steam Boilers, Air Compressors, Dryers, Receivers, Pressure Vessels, Piping Systems, Accumulators, Reducing Stations, Tanks, Inter/After Coolers, Cooking Equipment, Autoclaves, Sterilizers or wherever higher capacity pressure protection or relief may be required.



SIZES FROM 1/2" TO 2 1/2"
NB RATED TO 250 PSIG
TEMPERATURES TO 406° F
MAX TEMP BRASS BRONZE 406° F

SEATING OPTIONS



METAL TO METAL



O-RING

PARTS IDENTIFICATION & MATERIALS

| ITEM | PART NAME | MATERIAL | ASTM |
|------|-----------------|-----------------|----------|
| 1 | HOOD | CAST BRASS | |
| 2 | COTTER PIN | | |
| 3 | LIFT LEVER PIN | BRASS | |
| 4 | LIFTER NUT | BRASS | B-16 |
| 5 | PRESSURE SCREW | BRASS | B-16 |
| 6 | LOCK NUT | BRASS | B-16 |
| 7 | HOOD SCREW | BRASS | |
| 8 | LIFT LEVER | CAST BRASS | |
| 9 | SPRING PLATE | BRASS | B-16 |
| 10 | SPRING | STAINLESS STEEL | |
| 11 | NAMEPLATE | ALUMINUM | |
| 12 | SPRING POST | BRASS | B-16 |
| 13 | BODY | BRASS | B-16 |
| | | CAST BRASS | B-61, 62 |
| 14 | BONNET | CAST BRASS | B-61, 62 |
| 15 | UPPER RING | CAST BRASS | |
| 16 | LOWER RING | CAST BRASS | |
| 17 | DISC NUT | BRASS | B-16 |
| 18 | DISC | BRASS | B-16 |
| 19 | REGULATOR SCREW | BRASS | B-16 |
| 20 | BALL BEARING | STAINLESS STEEL | |

SEATING / TRIM OPTIONS

| 560 BRASS/BRONZE | 570 BRASS BRONZE |
|------------------|------------------|
| 561 TEFLON | 571 TEFLON |
| 562 O-RING | 572 O-RING |
| 564 SPECIAL | 574 SPECIAL |



SERIES 560/570 DIMENSIONS • AIR/GAS/STEAM

| SERIES NO. | ORIFICE I.D. | ORIFICE SIZE (Sq. Ins.) | INLET (Sq. Ins.) | OUTLET (Sq. Ins.) | SIZE I.D. | -----DIMENSIONS----- | | | WEIGHT (lbs) |
|------------|--------------|-------------------------|------------------|-------------------|-----------|----------------------|-------|-------|--------------|
| | | | | | | A | B | C | |
| 560 | D | 0.125 | 1/2 | 3/4 | A | 7.312 | 2.468 | 1.5 | 1.9 |
| 560 | D | 0.125 | 3/4 | 3/4 | B | 7.312 | 2.468 | 1.5 | 2.2 |
| 560 | E | 0.221 | 3/4 | 1 | C | 7.625 | 2.5 | 1.625 | 2.8 |
| 560 | E | 0.221 | 1 | 1 | D | 7.625 | 2.5 | 1.625 | 3.0 |
| 560 | F | 0.342 | 1 | 1 1/4 | E | 8.625 | 2.75 | 1.75 | 4.0 |
| 560 | F | 0.342 | 1 1/4 | 1 1/4 | F | 8.625 | 2.75 | 1.75 | 4.2 |
| 560 | G | 0.478 | 1 1/4 | 1 1/2 | G | 9.25 | 3.218 | 2.25 | 6.7 |
| 560 | G | 0.478 | 1 1/2 | 1 1/2 | H | 9.25 | 3.218 | 2.25 | 6.9 |
| 560 | H | 0.899 | 1 1/2 | 2 | J | 10.875 | 3.625 | 2.5 | 11.4 |
| 560 | H | 0.899 | 2 | 2 | K | 10.875 | 3.625 | 2.5 | 11.6 |
| 560 | J | 1.463 | 2 | 2 1/2 | L | 12.062 | 3.937 | 3.125 | 15.6 |
| 560 | J | 1.463 | 2 1/2 | 2 1/2 | M | 12.062 | 3.937 | 3.125 | 16.3 |

Metric Equivalents: Centimeters = Inches x 2.540 Kg = Lbs x .4536



Capacity ratings based on pounds per hour of saturated steam at 3% over pressure. NB certified at 90% of accumulated flow.

SERIES 560 CAPACITIES • STEAM • ASME SECTION I Section I (V)-National Board Certified

| SET PRESSURE PSIG | ORIFICE D .125 (Sq. Ins.) | ORIFICE E .221 (Sq. Ins.) | ORIFICE F .352 (Sq. Ins.) | ORIFICE G .567 (Sq. Ins.) | ORIFICE H .899 (Sq. Ins.) | ORIFICE J 1.463 (Sq. Ins.) |
|-------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| 5* | 120 | 211 | 337 | 542 | 860 | 1400 |
| 10* | 147 | 260 | 414 | 667 | 1058 | 1722 |
| 15 | 175 | 309 | 492 | 792 | 1256 | 2044 |
| 20 | 213 | 377 | 601 | 967 | 1534 | 2496 |
| 25 | 230 | 406 | 647 | 1042 | 1653 | 2689 |
| 30 | 257 | 455 | 725 | 1167 | 1851 | 3012 |
| 35 | 285 | 504 | 802 | 1292 | 2049 | 3334 |
| 40 | 312 | 552 | 880 | 1417 | 2247 | 3657 |
| 45 | 340 | 601 | 957 | 1542 | 2445 | 3979 |
| 50 | 368 | 650 | 1035 | 1667 | 2643 | 4302 |
| 55 | 395 | 699 | 1113 | 1792 | 2842 | 4624 |
| 60 | 423 | 747 | 1190 | 1917 | 3040 | 4947 |
| 65 | 450 | 796 | 1268 | 2042 | 3238 | 5269 |
| 70 | 478 | 846 | 1347 | 2170 | 3440 | 5598 |
| 75 | 506 | 895 | 1426 | 2297 | 3642 | 5927 |
| 80 | 535 | 946 | 1507 | 2427 | 3848 | 6262 |
| 85 | 563 | 996 | 1586 | 2555 | 4050 | 6591 |
| 90 | 592 | 1046 | 1667 | 2685 | 4256 | 6927 |
| 95 | 620 | 1096 | 1746 | 2812 | 4459 | 7256 |
| 100 | 649 | 1147 | 1826 | 2942 | 4665 | 7591 |
| 110 | 705 | 1247 | 1986 | 3199 | 5073 | 8255 |
| 120 | 762 | 1347 | 2146 | 3457 | 5481 | 8920 |
| 130 | 819 | 1448 | 2306 | 3714 | 5889 | 9584 |
| 140 | 876 | 1548 | 2466 | 3972 | 6297 | 10248 |
| 150 | 932 | 1648 | 2626 | 4229 | 6706 | 10913 |
| 160 | 989 | 1749 | 2785 | 4487 | 7114 | 11577 |
| 170 | 1046 | 1849 | 2945 | 4744 | 7522 | 12241 |
| 180 | 1103 | 1949 | 3105 | 5002 | 7930 | 12905 |
| 190 | 1159 | 2050 | 3265 | 5259 | 8338 | 13570 |
| 200 | 1216 | 2150 | 3425 | 5517 | 8747 | 14234 |
| 210 | 1273 | 2251 | 3585 | 5774 | 9155 | 14898 |
| 220 | 1330 | 2351 | 3744 | 6031 | 9563 | 15563 |
| 230 | 1386 | 2451 | 3904 | 6289 | 9971 | 16227 |
| 240 | 1443 | 2552 | 4064 | 6546 | 10379 | 16891 |
| 250 | 1500 | 2652 | 4224 | 6804 | 10788 | 17556 |
| 260* | 1557 | 2752 | 4384 | 7061 | 11196 | 18220 |
| 270* | 1613 | 2853 | 4544 | 7319 | 11604 | 18884 |
| 280* | 1670 | 2953 | 4703 | 7576 | 12012 | 19548 |
| 290* | 1727 | 3053 | 4863 | 7834 | 12421 | 20213 |
| 300* | 1784 | 3154 | 5023 | 8091 | 12829 | 20877 |

BAR = PSI x .06895 Kilograms = PPH x .4536

*Not ASME/NB over 250 PSI.



Capacity ratings based on SCFM
(standard cubic feet per minute)
of Air at 10% over pressure. NB
certified at 90% of measured flow.



SERIES 570 CAPACITIES • AIR/GAS • ASME SECTION VIII Section VIII (UV)-National Board Certified

| SET PRESSURE PSIG | ORIFICE D .125 (Sq. Ins.) | ORIFICE E .221 (Sq. Ins.) | ORIFICE F .352 (Sq. Ins.) | ORIFICE G .567 (Sq. Ins.) | ORIFICE H .899 (Sq. Ins.) | ORIFICE J 1.463 (Sq. Ins.) |
|-------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| 5 | 45 | 79 | 125 | 202 | 320 | 521 |
| 10 | 54 | 96 | 153 | 246 | 391 | 636 |
| 15 | 64 | 113 | 181 | 291 | 461 | 751 |
| 20 | 74 | 131 | 208 | 335 | 532 | 865 |
| 25 | 84 | 148 | 236 | 380 | 602 | 980 |
| 30 | 94 | 165 | 263 | 424 | 673 | 1095 |
| 35 | 104 | 184 | 294 | 473 | 750 | 1221 |
| 40 | 115 | 204 | 324 | 522 | 828 | 1348 |
| 45 | 126 | 223 | 355 | 571 | 906 | 1474 |
| 50 | 137 | 242 | 385 | 620 | 983 | 1600 |
| 55 | 147 | 261 | 415 | 669 | 1061 | 1726 |
| 60 | 158 | 280 | 446 | 718 | 1138 | 1853 |
| 65 | 169 | 299 | 476 | 767 | 1216 | 1979 |
| 70 | 180 | 318 | 506 | 816 | 1294 | 2105 |
| 75 | 191 | 337 | 537 | 865 | 1371 | 2231 |
| 80 | 201 | 356 | 567 | 914 | 1449 | 2358 |
| 85 | 212 | 375 | 598 | 963 | 1526 | 2484 |
| 90 | 223 | 394 | 628 | 1012 | 1604 | 2610 |
| 95 | 234 | 413 | 658 | 1061 | 1681 | 2736 |
| 100 | 245 | 432 | 689 | 1109 | 1759 | 2863 |
| 110 | 266 | 471 | 750 | 1207 | 1914 | 3115 |
| 120 | 288 | 509 | 810 | 1305 | 2069 | 3368 |
| 130 | 309 | 547 | 871 | 1403 | 2225 | 3620 |
| 140 | 331 | 585 | 932 | 1501 | 2380 | 3873 |
| 150 | 352 | 623 | 993 | 1599 | 2535 | 4125 |
| 160 | 374 | 661 | 1053 | 1697 | 2690 | 4378 |
| 170 | 396 | 699 | 1114 | 1795 | 2845 | 4630 |
| 180 | 417 | 738 | 1175 | 1892 | 3000 | 4883 |
| 190 | 439 | 776 | 1236 | 1990 | 3156 | 5135 |
| 200 | 460 | 814 | 1296 | 2088 | 3311 | 5388 |
| 210 | 482 | 852 | 1357 | 2186 | 3466 | 5640 |
| 220 | 503 | 890 | 1418 | 2284 | 3621 | 5893 |
| 230 | 525 | 928 | 1479 | 2382 | 3776 | 6145 |
| 240 | 547 | 966 | 1539 | 2480 | 3931 | 6398 |
| 250 | 568 | 1005 | 1600 | 2577 | 4087 | 6650 |
| 260* | 590 | 1043 | 1661 | 2675 | 4242 | 6903 |
| 270* | 611 | 1081 | 1722 | 2773 | 4397 | 7156 |
| 280* | 633 | 1119 | 1782 | 2871 | 4552 | 7408 |
| 290* | 655 | 1157 | 1843 | 2969 | 4707 | 7661 |
| 300* | 676 | 1195 | 1904 | 3067 | 4863 | 7913 |

BAR = PSI x .06895 SM3/MIN = SCFM x 0.028
*Not ASME/NB over 250 PSI.





Capacity ratings based on pounds per hour of saturated steam at 10% over pressure. NB certified at 90% of accumulated flow.

SERIES 570 CAPACITIES • STEAM • ASME SECTION VIII

Section VIII (UV)-National Board Certified

| SET PRESSURE PSIG | ORIFICE D .125 (Sq. Ins.) | ORIFICE E .221 (Sq. Ins.) | ORIFICE F .352 (Sq. Ins.) | ORIFICE G .567 (Sq. Ins.) | ORIFICE H .899 (Sq. Ins.) | ORIFICE J 1.463 (Sq. Ins.) |
|-------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|
| 5* | 125 | 221 | 352 | 567 | 900 | 1464 |
| 10* | 153 | 270 | 430 | 692 | 1098 | 1787 |
| 15 | 180 | 319 | 507 | 817 | 1296 | 2109 |
| 20 | 208 | 367 | 585 | 942 | 1494 | 2431 |
| 25 | 235 | 416 | 663 | 1067 | 1692 | 2754 |
| 30 | 263 | 465 | 740 | 1192 | 1890 | 3076 |
| 35 | 293 | 518 | 826 | 1330 | 2108 | 3431 |
| 40 | 323 | 572 | 911 | 1467 | 2326 | 3786 |
| 45 | 354 | 625 | 996 | 1605 | 2544 | 4141 |
| 50 | 384 | 679 | 1082 | 1742 | 2762 | 4495 |
| 55 | 414 | 733 | 1167 | 1880 | 2980 | 4850 |
| 60 | 445 | 786 | 1252 | 2017 | 3198 | 5205 |
| 65 | 475 | 840 | 1338 | 2155 | 3416 | 5559 |
| 70 | 505 | 893 | 1423 | 2292 | 3634 | 5914 |
| 75 | 536 | 947 | 1508 | 2430 | 3852 | 6269 |
| 80 | 566 | 1001 | 1594 | 2567 | 4070 | 6624 |
| 85 | 596 | 1054 | 1679 | 2705 | 4288 | 6978 |
| 90 | 627 | 1108 | 1764 | 2842 | 4506 | 7333 |
| 95 | 657 | 1161 | 1850 | 2979 | 4724 | 7688 |
| 100 | 687 | 1215 | 1935 | 3117 | 4942 | 8043 |
| 110 | 748 | 1322 | 2106 | 3392 | 5378 | 8752 |
| 120 | 808 | 1429 | 2276 | 3667 | 5814 | 9461 |
| 130 | 869 | 1536 | 2447 | 3942 | 6250 | 10171 |
| 140 | 930 | 1644 | 2618 | 4217 | 6686 | 10880 |
| 150 | 990 | 1751 | 2789 | 4492 | 7122 | 11590 |
| 160 | 1051 | 1858 | 2959 | 4767 | 7558 | 12299 |
| 170 | 1111 | 1965 | 3130 | 5042 | 7994 | 13009 |
| 180 | 1172 | 2072 | 3301 | 5317 | 8430 | 13718 |
| 190 | 1233 | 2179 | 3471 | 5592 | 8866 | 14428 |
| 200 | 1293 | 2287 | 3642 | 5866 | 9302 | 15137 |
| 210 | 1354 | 2394 | 3813 | 6141 | 9737 | 15846 |
| 220 | 1415 | 2501 | 3983 | 6416 | 10173 | 16556 |
| 230 | 1475 | 2608 | 4154 | 6691 | 10609 | 17265 |
| 240 | 1536 | 2715 | 4325 | 6966 | 11045 | 17975 |
| 250 | 1596 | 2822 | 4495 | 7241 | 11481 | 18684 |
| 260* | 1657 | 2930 | 4666 | 7516 | 11917 | 19394 |
| 270* | 1718 | 3037 | 4837 | 7791 | 12353 | 20103 |
| 280* | 1778 | 3144 | 5008 | 8066 | 12789 | 20813 |
| 290* | 1839 | 3251 | 5178 | 8341 | 13225 | 21522 |
| 300* | 1899 | 3358 | 5349 | 8616 | 13661 | 22231 |

BAR = PSI x .06895 Kilograms = PPH x .4536 *Not ASME/NB over 250 PSI.

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