

Condenser Tube Expansion 800-5 Series



We are offering Condenser Tube Expander 800-5 Series
5/8"- 1 1/2" O.D.

| Tube O.D. (mm) | Tube Thickness | | | Tube I.D. | | | Minimum I.D. Tool Enters | | Maximum Expansion of Tool | | EXPANDER with (38.10mm) 1.1/2" Long Rollers | | | EXPANDER with (57.15 mm) 2.1/4" Long Rollers | | |
|-------------------|----------------|------|------|-----------|------|------|--------------------------|------|---------------------------|----------|---|----------|----------|--|----------|---------|
| | | | | | | | | | | | Complete | Mandrel | Rollers | Complete | Mandrel | Rollers |
| inch | bwg | mm | inch | mm | inch | mm | inch | mm | inch | Tool No. | No. | Set. No. | Tool No. | No. | Set. No. | |
| (15.88) 5/8" | 17 | 1.47 | .058 | 12.9 | .509 | 12.6 | .499 | 14.3 | .564 | 815-5 | 316-5 | R-4-5 | 816-5 | 316-5 | R-4-A-5 | |
| | 18 | 1.24 | .049 | 13.4 | .527 | 13.1 | .517 | 14.6 | .576 | 817-5 | M-9 | R-4-5 | - | - | - | |
| | 19 | 1.06 | .042 | 13.7 | .541 | 13.3 | .522 | 14.8 | .582 | 819-5 | 320-5 | R-4-5 | 820-5 | 320-5 | R-4-A-5 | |
| | 20 | 0.88 | .035 | 14.1 | .555 | 13.6 | .536 | 15.1 | .596 | 819-5 S | 320-5 S | R-4-5 | 820-5 S | 320-5 S | R-4-A-5 | |
| | 21 | 0.81 | .032 | 14.2 | .561 | 13.6 | .536 | 15.1 | .596 | 819-5 S | 320-5 S | R-4-5 | 820-5 S | 320-5 S | R-4-A-5 | |
| | 22 | 0.71 | .028 | 14.5 | .569 | 13.6 | .536 | 15.1 | .596 | 819-5 S | 320-5 S | R-4-5 | 820-5 S | 320-5 S | R-4-A-5 | |
| (19.05) 3/4" | 13 | 2.41 | .095 | 14.2 | .560 | 13.9 | .550 | 15.6 | .615 | 821-5 | 322-5 | R-5-5 | 822-5 | 322-5 | R-5-A-5 | |
| | 14 | 2.10 | .083 | 14.8 | .584 | 14.5 | .574 | 15.9 | .629 | 823-5 | 324-5 | R-6-5 | 824-5 | 324-5 | R-6-A-5 | |
| | 15 | 1.82 | .072 | 15.3 | .606 | 14.9 | .590 | 16.8 | .661 | 825-5 | 326-5 | R-7-5 | 826-5 | 326-5 | R-7-A-5 | |
| | 16 | 1.65 | .065 | 15.7 | .620 | 15.3 | .605 | 17.2 | .680 | 827-5 | M-13 | R-7-5 | 828-5 | M-13 | R-7-A-5 | |
| | 17 | 1.47 | .058 | 16.1 | .634 | 15.7 | .619 | 17.8 | .699 | 829-5 | 330-5 | R-7-5 | 830-5 | 330-5 | R-7-A-5 | |
| | 18 | 1.24 | .049 | 16.5 | .652 | 15.7 | .619 | 17.8 | .699 | 829-5 | 330-5 | R-7-5 | 830-5 | 330-5 | R-7-A-5 | |
| | 19 | 1.06 | .042 | 16.9 | .666 | 16.3 | .642 | 18.5 | .729 | 831-5 | M-13 | R-9-5 | 832-5 | M-13 | R-9-A5 | |
| | 20 | 0.88 | .035 | 17.2 | .680 | 16.3 | .642 | 18.5 | .729 | 831-5 | M-13 | R-9-5 | 832-5 | M-13 | R-9-A-5 | |
| | 21 | 0.81 | .032 | 17.4 | .686 | 16.3 | .642 | 18.5 | .729 | 831-5 | M-13 | R-9-5 | 832-5 | M-13 | R-9-A-5 | |
| | 22 | 0.71 | .028 | 17.6 | .694 | 16.3 | .642 | 18.5 | .729 | 831-5 | M-13 | R-9-5 | 832-5 | M-13 | R-9-A-5 | |
| | 23 | 0.64 | .025 | 17.8 | .700 | 17.0 | .670 | 18.9 | .747 | 833-5 | M-14-3/8 | R-9-5 | 834-5 | M-14-3/8 | R-9-A5 | |
| | 24 | 0.56 | .022 | 17.9 | .706 | 17.0 | .670 | 18.9 | .747 | 833-5 | M-14-3/8 | R-9-5 | 834-5 | M-14-3/8 | R-9-A5 | |
| | 25 | 0.51 | .020 | 18.0 | .710 | 17.4 | .685 | 19.0 | .750 | 835-5 | 340-5 | R-10-5 | 836-5 | M-840-5 | R-10-A-5 | |

For best results a 'Thin Wall Thrust Coller' should be used when rolling 19 thru 22 gauge wall tubes. Model 315-5-358-5 come with 3/8" square mandrel drives and Model 359-5-400-5 come with 1/2" square mandrel drives.

| Tube O.D. (mm) inch | Tube Thickness | | | Tube I.D. | | | Minimum I.D. Tool Enters | | Maximum Expansion of Tool | | EXPANDER with (38.10mm) 1.1/2" Long Rollers | | | EXPANDER with (57.15 mm) 2.1/4" Long Rollers | | |
|---------------------------|----------------|------|------|-----------|-------|------|--------------------------|------|---------------------------|-------|---|----------|---------|--|----------|---------|
| | | | | | | | | | | | Complete | Mandrel | Rollers | Complete | Mandrel | Rollers |
| bwg | mm | inch | mm | inch | mm | inch | mm | inch | Tool No. | No. | Set. No. | Tool No. | No. | Set. No. | | |
| (22.22) 7/8" | 13 | 2.41 | .095 | 17.4 | .685 | 17.0 | .670 | 18.9 | .747 | 833-5 | M-14-3/8 | R-9-5 | 834-5 | M-14-3/8 | R-9-A-5 | |
| | 14 | 2.10 | .083 | 18.0 | .709 | 17.4 | .685 | 19.0 | .750 | 835-5 | M-15-3/8 | R-10-5 | 836-5 | M-15-3/8 | R-10-A-5 | |
| | 16 | 1.65 | .065 | 18.9 | .745 | 18.4 | .726 | 20.3 | .800 | 839-5 | 340-5 | R-11-5 | 840-5 | 340-5 | R-11-A-5 | |
| | 17 | 1.47 | .058 | 19.2 | .759 | 18.8 | .740 | 20.9 | .824 | 843-5 | M-17-3/8 | R-11-5 | 844-5 | M-17-3/8 | R-11-A-5 | |
| | 18 | 1.24 | .049 | 19.7 | .777 | 18.8 | .740 | 20.9 | .824 | 843-5 | M-17-3/8 | R-11-5 | 844-5 | M-17-3/8 | R-11-A-5 | |
| | 19 | 1.07 | .042 | 20.1 | .791 | 19.4 | .763 | 21.6 | .851 | 845-5 | M-18-3/8 | R-11-5 | 846-5 | M-18-3/8 | R-11-A-5 | |
| | 20 | 0.89 | .035 | 20.4 | .805 | 19.4 | .763 | 21.6 | .851 | 845-5 | M-18-3/8 | R-11-5 | 846-5 | M-18-3/8 | R-11-A-5 | |
| | 21 | 0.81 | .032 | 20.6 | .811 | 19.4 | .763 | 21.6 | .851 | 845-5 | M-18-3/8 | R-11-5 | 846-5 | M-18-3/8 | R-11-A-5 | |
| | 22 | 0.71 | .028 | 20.8 | .819 | 19.4 | .763 | 21.6 | .851 | 845-5 | M-18-3/8 | R-11-5 | 846-5 | M-18-3/8 | R-11-A-5 | |
| | 23 | 0.64 | .025 | 20.9 | .825 | 20.1 | .791 | 22.4 | .880 | 847-5 | M-18-3/8 | R-13-5 | 848-5 | M-18-3/8 | R-13-A-5 | |
| (25.40) 1" | 24 | 0.56 | .022 | 21.1 | .831 | 20.1 | .791 | 22.4 | .880 | 847-5 | M-18-3/8 | R-13-5 | 848-5 | M-18-3/8 | R-13-A-5 | |
| | 12 | 2.76 | .109 | 19.8 | .782 | 19.4 | .763 | 21.6 | .852 | 845-5 | M-18-3/8 | R-11-5 | 846-5 | M-18-3/8 | R-11-A-5 | |
| | 13 | 2.41 | .095 | 20.5 | .810 | 20.1 | .791 | 22.4 | .880 | 847-5 | M-18-3/8 | R-13-5 | 848-5 | M-18-3/8 | R-13-A-5 | |
| | 14 | 2.10 | .083 | 21.2 | .834 | 20.5 | .810 | 22.3 | .879 | 879-5 | 350-5 | R-12-5 | 850-5 | M-18-3/8 | R-12-A-5 | |
| | 15 | 1.82 | .072 | 21.7 | .856 | 21.3 | .837 | 23.8 | .936 | 851-5 | 352-5 | R-13-5 | 852-5 | 352-5 | R-13-A-5 | |
| | 16 | 1.65 | .065 | 22.0 | .870 | 21.3 | .837 | 23.8 | .936 | 851-5 | 352-5 | R-13-5 | 852-5 | 352-5 | R-13-A-5 | |
| | 17 | 1.47 | .058 | 22.4 | .884 | 22.0 | .865 | 24.5 | .965 | 855-5 | 356-5 | R-13-5 | 856-5 | 356-5 | R-13-A-5 | |
| | 18 | 1.24 | .049 | 22.9 | .902 | 22.0 | .865 | 24.5 | .965 | 855-5 | 356-5 | R-13-5 | 856-5 | 356-5 | R-13-A-5 | |
| | 19 | 1.06 | .042 | 23.2 | .916 | 22.0 | .865 | 24.5 | .965 | 855-5 | 356-5 | R-13-5 | 856-5 | 356-5 | R-13-A-5 | |
| | 20 | 0.88 | .035 | 23.6 | .930 | 22.0 | .865 | 24.5 | .965 | 855-5 | 356-5 | R-13-5 | 856-5 | 356-5 | R-13-A-5 | |
| (28.58) 1.1/8" | 21 | 0.81 | .032 | 23.8 | .936 | 22.4 | .883 | 25.3 | .997 | 857-5 | M-21-3/8 | R-15-5 | 858-5 | M-21-3/8 | R-15-A-5 | |
| | 22 | 0.71 | .028 | 24.0 | .944 | 22.4 | .883 | 25.3 | .997 | 857-5 | M-21-3/8 | R-15-5 | 858-5 | M-21-3/8 | R-15-A-5 | |
| | 23 | 0.64 | .025 | 24.1 | .950 | 22.4 | .883 | 25.3 | .997 | 857-5 | M-21-3/8 | R-15-5 | 858-5 | M-21-3/8 | R-15-A-5 | |
| | 24 | 0.56 | .022 | 24.3 | .956 | 22.4 | .883 | 25.3 | .997 | 857-5 | M-21-3/8 | R-15-5 | 858-5 | M-21-3/8 | R-15-A-5 | |
| | 25 | 0.51 | .020 | 24.4 | .960 | 22.4 | .883 | 25.3 | .997 | 857-5 | M-21-3/8 | R-15-5 | 858-5 | M-21-3/8 | R-15-A-5 | |
| | 12 | 2.76 | .109 | 23.0 | .907 | 22.4 | .883 | 25.3 | .997 | 857-5 | M-21-3/8 | R-15-5 | 858-5 | M-21-3/8 | R-15-A-5 | |
| | 13 | 2.41 | .095 | 23.7 | .935 | 23.2 | .916 | 25.4 | 1.000 | 859-5 | 360-5 | R-16-5 | 860-5 | 360-5 | R-16-A-5 | |
| | 14 | 2.11 | .083 | 24.3 | .959 | 23.7 | .935 | 26.4 | 1.039 | 861-5 | 362-5 | R-17-5 | 862-5 | 362-5 | R-17-A-5 | |
| | 22 | 0.71 | .028 | 27.2 | 1.069 | 26.4 | 1.039 | 29.4 | 1.157 | 871-5 | 372-5 | R-19-5 | 872-5 | 372-5 | R-19-A-5 | |
| | 24 | 0.56 | .022 | 27.5 | 1.081 | 26.4 | 1.039 | 29.4 | 1.157 | 871-5 | 372-5 | R-19-5 | 872-5 | 372-5 | R-19-A-5 | |
| (31.75) 1.1/4" | 15 | 1.82 | .072 | 28.1 | 1.106 | 27.6 | 1.087 | 30.4 | 1.196 | 875-5 | 376-5 | R-21-5 | 876-5 | 376-5 | R-21-A-5 | |
| | 16 | 1.65 | .065 | 28.4 | 1.120 | 27.6 | 1.087 | 30.4 | 1.196 | 875-5 | 376-5 | R-21-5 | 876-5 | 376-5 | R-21-A-5 | |
| | 17 | 1.47 | .058 | 28.8 | 1.134 | 28.3 | 1.115 | 31.3 | 1.231 | 879-5 | 380-5 | R-21-5 | 880-5 | 380-5 | R-21-A-5 | |
| | 18 | 1.24 | .049 | 29.3 | 1.152 | 28.3 | 1.115 | 31.3 | 1.231 | 879-5 | 380-5 | R-21-5 | 880-5 | 380-5 | R-21-A-5 | |
| | 19 | 1.07 | .042 | 29.6 | 1.166 | 28.3 | 1.115 | 31.3 | 1.231 | 879-5 | 380-5 | R-21-5 | 880-5 | 380-5 | R-21-A-5 | |
| | 20 | 0.88 | .035 | 30.0 | 1.180 | 28.3 | 1.115 | 31.3 | 1.231 | 879-5 | 380-5 | R-21-5 | 880-5 | 380-5 | R-21-A-5 | |
| | 21 | 0.81 | .032 | 30.1 | 1.186 | 28.3 | 1.115 | 31.3 | 1.231 | 879-5 | 380-5 | R-21-5 | 880-5 | 380-5 | R-21-A-5 | |
| | 22 | 0.71 | .028 | 30.3 | 1.194 | 28.3 | 1.115 | 31.3 | 1.231 | 879-5 | 380-5 | R-21-5 | 880-5 | 380-5 | R-21-A-5 | |
| (34.92) 1.3/8" | 23 | 0.64 | .025 | 30.5 | 1.200 | 28.8 | 1.133 | 31.5 | 1.242 | 881-5 | 382-5 | R-21-5 | 882-5 | 382-5 | R-21-A-5 | |
| | 24 | 0.56 | .022 | 30.6 | 1.206 | 28.8 | 1.133 | 31.5 | 1.242 | 881-5 | 382-5 | R-21-5 | 882-5 | 382-5 | R-21-A-5 | |
| | 12 | 2.76 | .109 | 29.3 | 1.154 | 28.8 | 1.133 | 31.5 | 1.242 | 881-5 | 382-5 | R-21-5 | 880-5 | 380-5 | R-21-A-5 | |
| | 14 | 2.11 | .083 | 30.7 | 1.209 | 29.9 | 1.179 | 32.9 | 1.296 | 885-5 | 382-5 | R-23-5 | 882-5 | 382-5 | R-23-A-5 | |
| | 20 | 0.88 | .035 | 33.2 | 1.305 | 31.9 | 1.257 | 35.2 | 1.385 | 893-5 | 394-5 | R-26-5 | 894-5 | 394-5 | R-26-A-5 | |
| (38.10) 1.1/2" | 22 | 0.71 | .028 | 33.5 | 1.319 | 32.6 | 1.285 | 36.0 | 1.417 | 895-5 | 396-5 | R-26-5 | 896-5 | 396-5 | R-26-A-5 | |
| | 24 | 0.56 | .022 | 33.8 | 1.331 | 32.6 | 1.285 | 36.0 | 1.417 | 895-5 | 396-5 | R-26-5 | 896-5 | 396-5 | R-26-A-5 | |
| | 17 | 1.47 | .058 | 35.1 | 1.384 | 33.8 | 1.331 | 37.8 | 1.489 | 899-5 | 400-5 | R-29-5 | 900-5 | 400-5 | R-29-A-5 | |
| | 18 | 1.24 | .049 | 35.6 | 1.402 | 33.8 | 1.331 | 37.8 | 1.489 | 899-5 | 400-5 | R-29-5 | 901-5 | 400-5 | R-29-A-5 | |
| | 19 | 1.06 | .042 | 36.0 | 1.416 | 33.8 | 1.331 | 37.8 | 1.489 | 899-5 | 400-5 | R-29-5 | 902-5 | 400-5 | R-29-A-5 | |
| | 20 | 0.89 | .035 | 36.3 | 1.430 | 33.8 | 1.331 | 37.8 | 1.489 | 899-5 | 400-5 | R-29-5 | 903-5 | 400-5 | R-29-A-5 | |
| | 21 | 0.81 | .032 | 36.5 | 1.436 | 33.8 | 1.331 | 37.8 | 1.489 | 899-5 | 400-5 | R-29-5 | 904-5 | 400-5 | R-29-A-5 | |
| | 22 | 0.71 | .028 | 36.7 | 1.444 | 33.8 | 1.331 | 37 | | | | | | | | |