

# ELBOWS



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### LEGEND

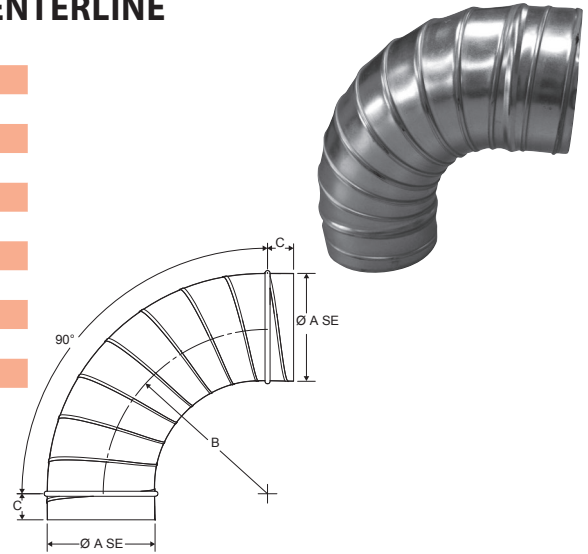
**NOTE:** The boxed columns throughout the tables are intended to provide a quick determination of ordering dimensions.

**ABBREVIATIONS:**

- CTN/QTY = Carton Quantity
- WT/100 = Weight per 100 Pieces
- WT/100 FT = Weight per 100 Feet
- WT/EA = Weight Each
- FT/BNDL = Feet per Bundle
- PCS/BNDL = Pieces per Bundle
- LGTH/BNDL = Length per Bundle

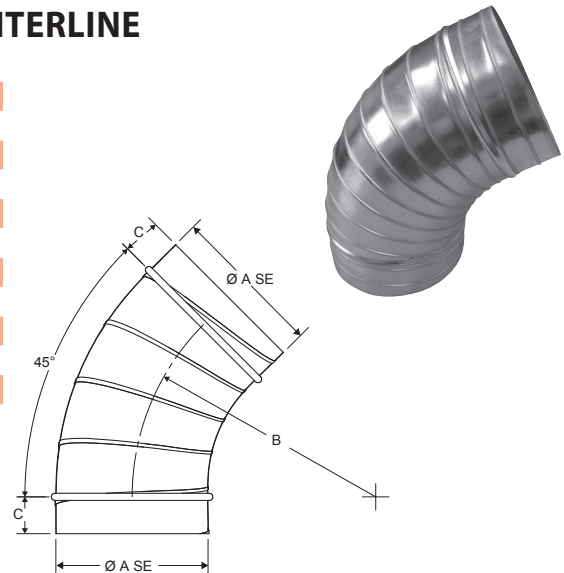
## 90° ECCO SPIRAL ELBOW™ — 26 GAUGE — 1-1/2 CENTERLINE

| ITEM # | SIZE      | A (") | B (")  | C (")   | PCS/BNDL | WT/100 |
|--------|-----------|-------|--------|---------|----------|--------|
| 547824 | 4" x 90°  | 4     | 6      | 2       | 1        | 140    |
| 547825 | 5" x 90°  | 5     | 7-1/2  | 2-3/16  | 1        | 200    |
| 547826 | 6" x 90°  | 6     | 9      | 2-3/8   | 1        | 270    |
| 547827 | 7" x 90°  | 7     | 10-1/2 | 2-9/16  | 1        | 350    |
| 547828 | 8" x 90°  | 8     | 12     | 2-3/4   | 1        | 430    |
| 547829 | 9" x 90°  | 9     | 13-1/2 | 2-15/16 | 1        | 530    |
| 547830 | 10" x 90° | 10    | 15     | 3-1/8   | 1        | 640    |
| 547832 | 12" x 90° | 12    | 18     | 3-9/16  | 1        | 890    |
| 547834 | 14" x 90° | 14    | 21     | 3-15/16 | 1        | 1170   |
| 547836 | 16" x 90° | 16    | 24     | 4-5/16  | 1        | 1797   |
| 547838 | 18" x 90° | 18    | 27     | 4-3/4   | 1        | 1830   |



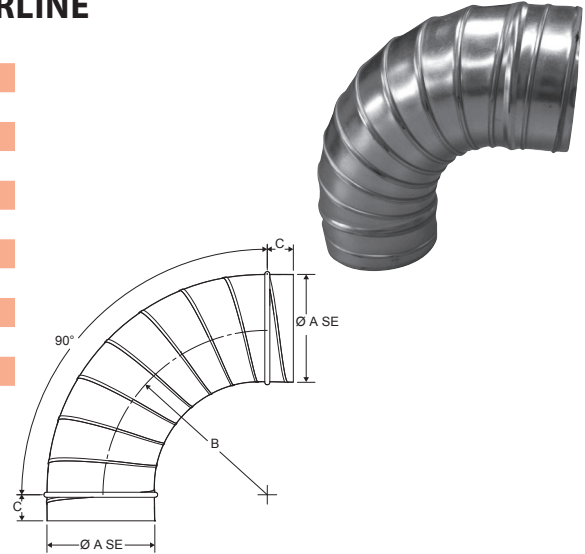
## 45° ECCO SPIRAL ELBOW™ — 26 GAUGE — 1-1/2 CENTERLINE

| ITEM # | SIZE      | A (") | B (")  | C (")   | PCS/BNDL | WT/100 |
|--------|-----------|-------|--------|---------|----------|--------|
| 547844 | 4" x 45°  | 4     | 6      | 2       | 1        | 100    |
| 547845 | 5" x 45°  | 5     | 7-1/2  | 2-3/16  | 1        | 140    |
| 547846 | 6" x 45°  | 6     | 9      | 2-3/8   | 1        | 170    |
| 547847 | 7" x 45°  | 7     | 10-1/2 | 2-9/16  | 1        | 220    |
| 547848 | 8" x 45°  | 8     | 12     | 2-3/4   | 1        | 280    |
| 547849 | 9" x 45°  | 9     | 13-1/2 | 2-15/16 | 1        | 330    |
| 547850 | 10" x 45° | 10    | 15     | 3-1/8   | 1        | 400    |
| 547852 | 12" x 45° | 12    | 18     | 3-9/16  | 1        | 530    |
| 547854 | 14" x 45° | 14    | 21     | 3-15/16 | 1        | 700    |
| 547856 | 16" x 45° | 16    | 24     | 4-5/16  | 1        | 890    |
| 547858 | 18" x 45° | 18    | 27     | 4-3/4   | 1        | 1090   |



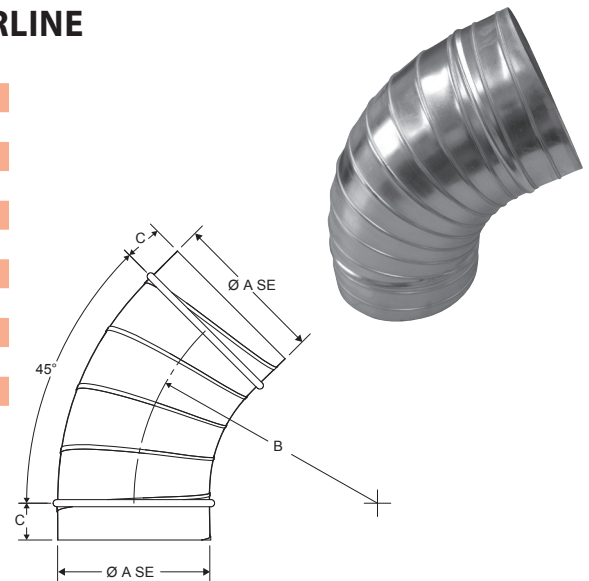
## 90° ECCO SPIRAL ELBOW™ — 26 GAUGE — 1 CENTERLINE

| ITEM # | SIZE      | A (") | B (") | C (")   | PCS/BNDL | WT/100 |
|--------|-----------|-------|-------|---------|----------|--------|
| 547864 | 4" x 90°  | 4     | 4     | 2       | 1        | 130    |
| 547865 | 5" x 90°  | 5     | 5     | 2-3/16  | 1        | 170    |
| 547866 | 6" x 90°  | 6     | 6     | 2-3/8   | 1        | 220    |
| 547867 | 7" x 90°  | 7     | 7     | 2-9/16  | 1        | 270    |
| 547868 | 8" x 90°  | 8     | 8     | 2-3/4   | 1        | 340    |
| 547869 | 9" x 90°  | 9     | 9     | 2-15/16 | 1        | 430    |
| 547870 | 10" x 90° | 10    | 10    | 3-1/8   | 1        | 520    |
| 547872 | 12" x 90° | 12    | 12    | 3-9/16  | 1        | 690    |
| 547874 | 14" x 90° | 14    | 14    | 3-15/16 | 1        | 860    |
| 547876 | 16" x 90° | 16    | 16    | 4-5/16  | 1        | 1170   |
| 547878 | 18" x 90° | 18    | 18    | 4-3/4   | 1        | 1490   |



## 45° ECCO SPIRAL ELBOW™ — 26 GAUGE — 1 CENTERLINE

| ITEM # | SIZE      | A (") | B (") | C (")   | PCS/BNDL | WT/100 |
|--------|-----------|-------|-------|---------|----------|--------|
| 547884 | 4" x 45°  | 4     | 4     | 2       | 1        | 100    |
| 547885 | 5" x 45°  | 5     | 5     | 2-3/16  | 1        | 120    |
| 547886 | 6" x 45°  | 6     | 6     | 2-3/8   | 1        | 150    |
| 547887 | 7" x 45°  | 7     | 7     | 2-9/16  | 1        | 180    |
| 547888 | 8" x 45°  | 8     | 8     | 2-3/4   | 1        | 230    |
| 547889 | 9" x 45°  | 9     | 9     | 2-15/16 | 1        | 280    |
| 547890 | 10" x 45° | 10    | 10    | 3-1/8   | 1        | 340    |
| 547892 | 12" x 45° | 12    | 12    | 3-9/16  | 1        | 430    |
| 547894 | 14" x 45° | 14    | 14    | 3-15/16 | 1        | 550    |
| 547896 | 16" x 45° | 16    | 16    | 4-5/16  | 1        | 750    |
| 547898 | 18" x 45° | 18    | 18    | 4-3/4   | 1        | 920    |

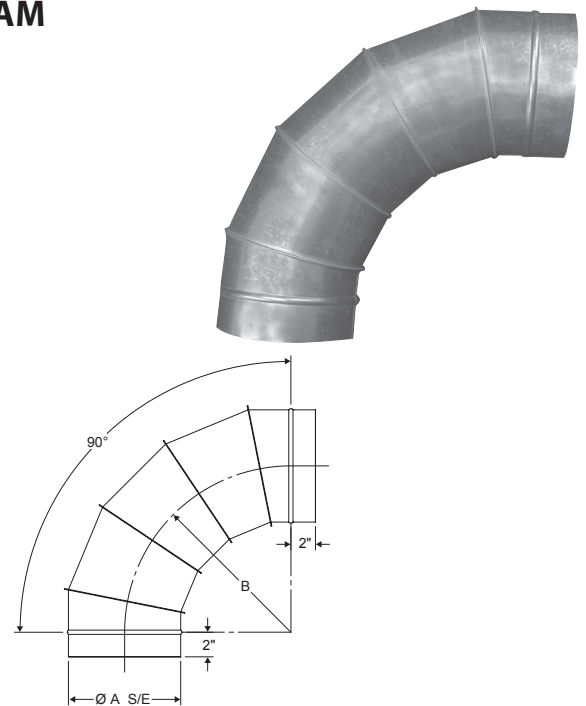


— E.&O.E. — Subject to Change Without Notice — May Not Be Available At All Locations —

## 90° ELBOWS — 1-1/2 CENTERLINE — STANDING SEAM

| ITEM # | SIZE      | A (")    | B (")  | GA | CTN/QTY | WT/100 |
|--------|-----------|----------|--------|----|---------|--------|
| 547905 | 5" x 90°  | 5        | 7-1/2  | 26 | 15      | 172    |
| 547906 | 6" x 90°  | 6        | 9      | 26 | 8       | 232    |
| 547907 | 7" x 90°  | 7        | 10-1/2 | 26 | 6       | 300    |
| 547908 | 8" x 90°  | 8        | 12     | 26 | *       | 382    |
| 547909 | 9" x 90°  | 9        | 13-1/2 | 26 | *       | 475    |
| 547910 | 10" x 90° | 10       | 15     | 26 | *       | 570    |
| 547912 | 12" x 90° | 12       | 18     | 26 | *       | 785    |
| 547914 | 14" x 90° | 13-15/16 | 21     | 26 | *       | 1030   |
| 547916 | 16" x 90° | 15-15/16 | 24     | 26 | *       | 1331   |
| 547918 | 18" x 90° | 17-7/8   | 27     | 26 | *       | 1570   |
| 547920 | 20" x 90° | 19-7/8   | 30     | 24 | *       | 2550   |
| 547922 | 22" x 90° | 21-7/8   | 33     | 24 | *       | 3030   |
| 547924 | 24" x 90° | 23-7/8   | 36     | 24 | *       | 3660   |
| 547926 | 26" x 90° | 25-7/8   | 39     | 24 | *       | 4200   |
| 547928 | 28" x 90° | 27-7/8   | 42     | 24 | *       | 4900   |
| 547930 | 30" x 90° | 29-7/8   | 45     | 22 | *       | 6600   |

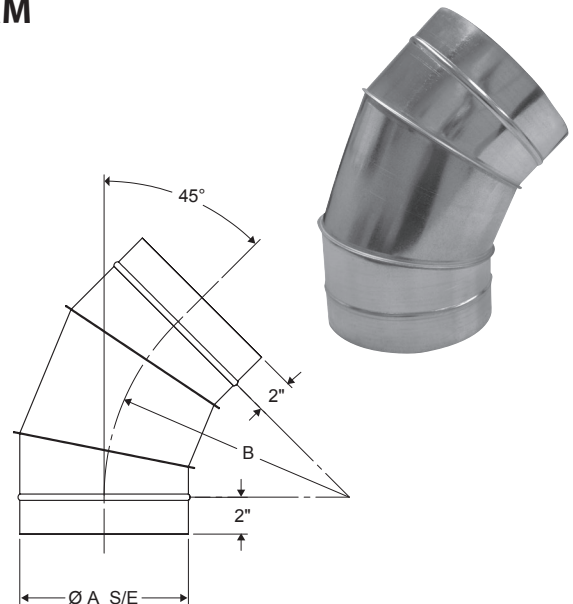
\*Product shipped individually.



## 45° ELBOWS — 1-1/2 CENTERLINE — STANDING SEAM

| ITEM # | SIZE      | A (")    | B (")  | GA | CTN/QTY | WT/100 |
|--------|-----------|----------|--------|----|---------|--------|
| 547955 | 5" x 45°  | 5        | 7-1/2  | 26 | *       | 103    |
| 547956 | 6" x 45°  | 6        | 9      | 26 | *       | 140    |
| 547957 | 7" x 45°  | 7        | 10-1/2 | 26 | *       | 180    |
| 547958 | 8" x 45°  | 8        | 12     | 26 | *       | 229    |
| 547959 | 9" x 45°  | 9        | 13-1/2 | 26 | *       | 285    |
| 547960 | 10" x 45° | 10       | 15     | 26 | *       | 342    |
| 547962 | 12" x 45° | 12       | 18     | 26 | *       | 471    |
| 547964 | 14" x 45° | 13-15/16 | 21     | 26 | *       | 618    |
| 547966 | 16" x 45° | 15-15/16 | 24     | 26 | *       | 799    |
| 547968 | 18" x 45° | 17-7/8   | 27     | 26 | *       | 842    |
| 547970 | 20" x 45° | 19-7/8   | 30     | 24 | *       | 1530   |
| 547972 | 22" x 45° | 21-7/8   | 33     | 24 | *       | 1818   |
| 547974 | 24" x 45° | 23-7/8   | 36     | 24 | *       | 2196   |
| 547976 | 26" x 45° | 25-7/8   | 39     | 24 | *       | 2378   |
| 547978 | 28" x 45° | 27-7/8   | 42     | 24 | *       | 2730   |
| 547980 | 30" x 45° | 29-7/8   | 45     | 22 | *       | 3777   |

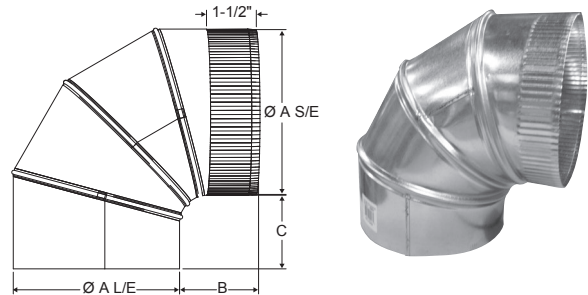
\*Product shipped individually.



## 90° ELBOWS — 30 GAUGE

| ITEM # | SIZE      | A (") | B (")   | C (")   | CTN/QTY | WT/100 |
|--------|-----------|-------|---------|---------|---------|--------|
| 120300 | 3" x 90°  | 3     | 2-11/16 | 2-11/16 | 20      | 35     |
| 120400 | 4" x 90°  | 4     | 2-7/8   | 2-3/8   | 50      | 55     |
| 120500 | 5" x 90°  | 5     | 2-5/8   | 2-1/8   | 50      | 70     |
| 120600 | 6" x 90°  | 6     | 2-11/16 | 2-11/16 | 20      | 88     |
| 120700 | 7" x 90°  | 7     | 2-7/8   | 2-3/4   | 12/Bndl | 105    |
| 120800 | 8" x 90°  | 8     | 3       | 3-1/4   | 12/Bndl | 147    |
| 120900 | 9" x 90°  | 9     | 3-3/8   | 3-1/4   | 8/Bndl  | 200    |
| 121000 | 10" x 90° | 10    | 3-1/8   | 3-1/8   | 8/Bndl  | 198    |

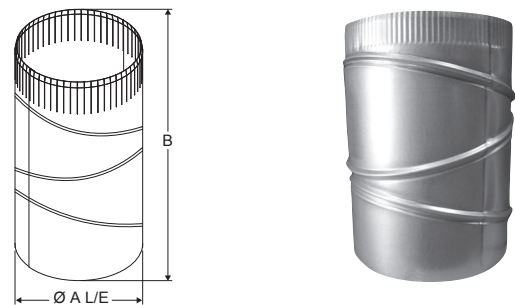
**NOTE:** All Elbows are large end/small end unless otherwise specified.



## 90° ELBOWS — 30 GAUGE — STRAIGHT TUBE

| ITEM # | SIZE      | A (") | B (")  | CTN/QTY | WT/100 |
|--------|-----------|-------|--------|---------|--------|
| 120401 | 4" x 90°  | 4     | 8      | 50      | 55     |
| 120601 | 6" x 90°  | 6     | 9-3/8  | 20      | 88     |
| 120701 | 7" x 90°  | 7     | 10-1/2 | 12/Bndl | 105    |
| 120801 | 8" x 90°  | 8     | 12-1/8 | 12/Bndl | 147    |
| 120901 | 9" x 90°  | 9     | 13-3/4 | 12      | 200    |
| 121001 | 10" x 90° | 10    | 13-1/2 | 12      | 198    |

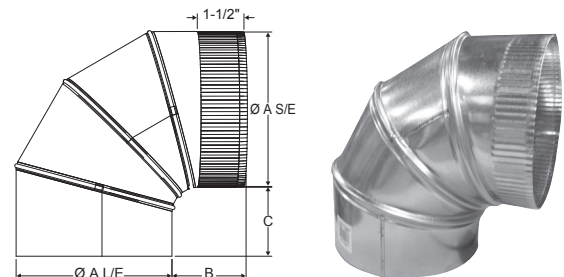
**NOTE:** All Elbows are large end/small end unless otherwise specified.



## 90° ELBOWS — 28 GAUGE

| ITEM # | SIZE      | A (")    | B (")   | C (")   | CTN/QTY | WT/100 |
|--------|-----------|----------|---------|---------|---------|--------|
| 120428 | 4" x 90°  | 4        | 2-7/8   | 2-3/8   | 50      | 65     |
| 120528 | 5" x 90°  | 5        | 2-5/8   | 2-1/8   | 30      | 86     |
| 120628 | 6" x 90°  | 6        | 2-11/16 | 2-11/16 | 20      | 120    |
| 120728 | 7" x 90°  | 7        | 2-7/8   | 2-3/4   | 12/Bndl | 150    |
| 120828 | 8" x 90°  | 8        | 3       | 3-1/4   | 12/Bndl | 250    |
| 120928 | 9" x 90°  | 9        | 3-3/8   | 3-1/4   | 8/Bndl  | 250    |
| 121028 | 10" x 90° | 10       | 3-1/8   | 3-1/8   | 8/Bndl  | 245    |
| 121200 | 12" x 90° | 12       | 3-1/2   | 4-1/8   | 4/Bndl  | 350    |
| 121400 | 14" x 90° | 13-15/16 | 3-3/4   | 4-1/2   | 4/Bndl  | 445    |
| 121600 | 16" x 90° | 15-15/16 | 4-3/4   | 4-3/4   | 2/Bndl  | 600    |

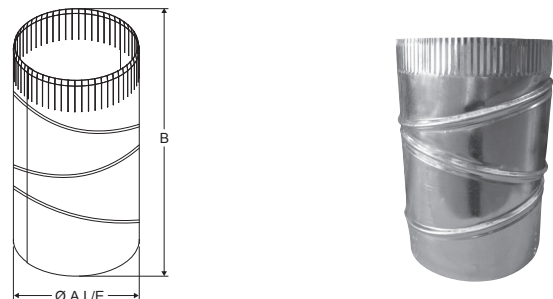
**NOTE:** All Elbows are large end/small end unless otherwise specified.



## 90° ELBOWS — 28 GAUGE — STRAIGHT TUBE

| ITEM # | SIZE      | A (")    | B (")  | CTN/QTY | WT/100 |
|--------|-----------|----------|--------|---------|--------|
| 121229 | 12" x 90° | 12       | 16-1/2 | 8/Bndl  | 370    |
| 121429 | 14" x 90° | 13-15/16 | 18-1/4 | 4/Bndl  | 400    |

**NOTE:** All Elbows are large end/small end unless otherwise specified.

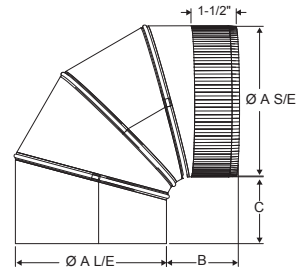




## 90° ELBOWS — 26 GAUGE

| ITEM # | SIZE      | A (")    | B (")   | C (")   | CTN/QTY | WT/100 |
|--------|-----------|----------|---------|---------|---------|--------|
| 540326 | 3" x 90°  | 3        | 2-11/16 | 2-11/16 | 20      | 47     |
| 540426 | 4" x 90°  | 4        | 2-7/8   | 2-3/8   | 50      | 76     |
| 540526 | 5" x 90°  | 5        | 2-5/8   | 2-1/8   | 30      | 99     |
| 540626 | 6" x 90°  | 6        | 2-11/16 | 2-11/16 | 20      | 137    |
| 540726 | 7" x 90°  | 7        | 2-7/8   | 2-3/4   | 12/Bndl | 150    |
| 540826 | 8" x 90°  | 8        | 3       | 3-1/4   | 12/Bndl | 195    |
| 540926 | 9" x 90°  | 9        | 3-3/8   | 3-1/4   | 8/Bndl  | 250    |
| 541026 | 10" x 90° | 10       | 3-1/8   | 3-1/8   | 8/Bndl  | 284    |
| 541226 | 12" x 90° | 12       | 3-1/2   | 4-1/8   | 4/Bndl  | 395    |
| 541426 | 14" x 90° | 13-15/16 | 3-3/4   | 4-1/2   | 4/Bndl  | 525    |
| 541626 | 16" x 90° | 15-15/16 | 4-3/4   | 4-3/4   | 2/Bndl  | 660    |
| 541826 | 18" x 90° | 17-7/8   | 4-3/4   | 5-1/8   | 2/Bndl  | 950    |

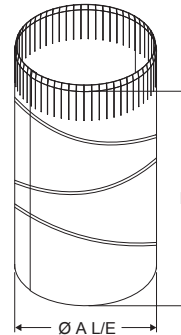
**NOTE:** All Elbows are large end/small end unless otherwise specified.



## 90° ELBOWS — 26 GAUGE — STRAIGHT TUBE

| ITEM # | SIZE      | A (") | B (")  | BNDL/QTY | WT/100 |
|--------|-----------|-------|--------|----------|--------|
| 540729 | 7" x 90°  | 7     | 10-1/2 | 12       | 175    |
| 540829 | 8" x 90°  | 8     | 12-1/8 | 12       | 225    |
| 540929 | 9" x 90°  | 9     | 13-3/4 | 12       | 275    |
| 541029 | 10" x 90° | 10    | 13-1/2 | 12       | 325    |
| 541229 | 12" x 90° | 12    | 16-1/2 | 8        | 500    |
| 541429 | 14" x 90° | 14    | 18-1/4 | 4        | 650    |
| 541629 | 16" x 90° | 16    | 21     | 4        | 700    |
| 541829 | 18" x 90° | 18    | 23     | 4        | 950    |
| 542029 | 20" x 90° | 20    | 25     | 12       | 1325   |

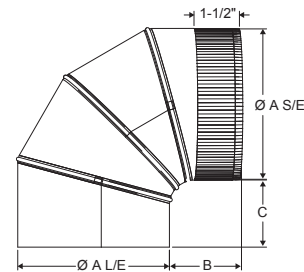
**NOTE:** All Elbows are large end/small end unless otherwise specified.



## 90° ELBOWS — 24 GAUGE

| ITEM # | SIZE      | A (")    | B (") | C (") | CTN/QTY | WT/100 |
|--------|-----------|----------|-------|-------|---------|--------|
| 540424 | 4" x 90°  | 4        | 2-3/4 | 2-7/8 | 20      | 95     |
| 540524 | 5" x 90°  | 5        | 3-1/8 | 2-3/4 | 20      | 120    |
| 540624 | 6" x 90°  | 6        | 2-7/8 | 2-3/4 | 20      | 170    |
| 540724 | 7" x 90°  | 7        | 3-1/4 | 3-1/4 | 8/Bndl  | 200    |
| 540824 | 8" x 90°  | 8        | 3-3/4 | 3-7/8 | 8/Bndl  | 300    |
| 540924 | 9" x 90°  | 9        | 3-7/8 | 3-3/8 | 8/Bndl  | 350    |
| 541024 | 10" x 90° | 10       | 4-1/4 | 4-1/4 | 8/Bndl  | 375    |
| 541224 | 12" x 90° | 12       | 4-1/8 | 4-1/8 | 4/Bndl  | 515    |
| 541424 | 14" x 90° | 13-15/16 | 4-1/2 | 4-1/4 | 4/Bndl  | 650    |
| 541624 | 16" x 90° | 15-15/16 | 4-1/2 | 4-3/4 | 2/Bndl  | 820    |
| 541824 | 18" x 90° | 17-7/8   | 5     | 5     | 2/Bndl  | 1050   |
| 542024 | 20" x 90° | 19-7/8   | 5-1/2 | 5-1/2 | 2/Bndl  | 1250   |

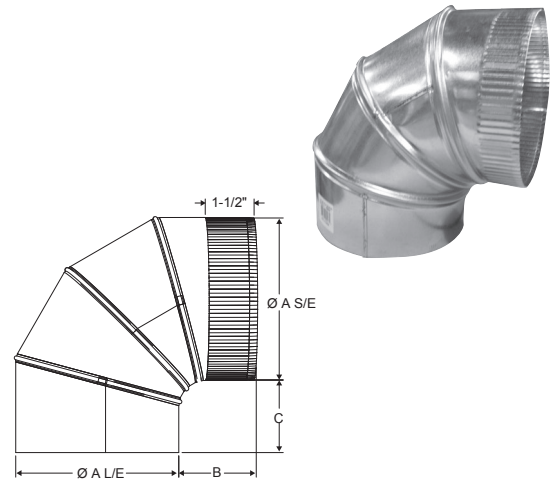
**NOTE:** All Elbows are large end/small end unless otherwise specified.



## 90° ELBOWS — 22 GAUGE

| ITEM # | SIZE      | A (")    | B (") | C (") | PCS/BNDL | WT/100 |
|--------|-----------|----------|-------|-------|----------|--------|
| 540822 | 8" x 90°  | 8        | 3-3/4 | 3-7/8 | 4        | 356    |
| 540922 | 9" x 90°  | 9        | 3-7/8 | 3-3/8 | 4        | 415    |
| 541022 | 10" x 90° | 10       | 4-1/4 | 4-1/4 | 4        | 504    |
| 541222 | 12" x 90° | 12       | 4-1/8 | 4-1/8 | 4        | 740    |
| 541422 | 14" x 90° | 13-15/16 | 4-1/2 | 4-1/4 | 4        | 948    |
| 541622 | 16" x 90° | 15-15/16 | 4-1/2 | 4-3/4 | 2        | 965    |
| 541822 | 18" x 90° | 17-7/8   | 5     | 5     | 2        | 1244   |
| 542022 | 20" x 90° | 19-7/8   | 5-1/2 | 5-1/2 | 2        | 1481   |
| 542222 | 22" x 90° | 21-7/8   | 4     | 4-3/4 | 2        | 1718   |
| 542422 | 24" x 90° | 23-7/8   | 5-1/2 | 6-1/8 | 2        | 2015   |

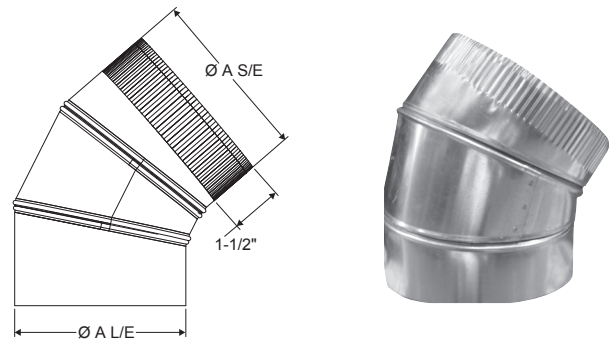
**NOTE:** All Elbows are large end/small end unless otherwise specified.



## 45° ELBOWS — 26 GAUGE

| ITEM # | SIZE     | A (") | CTN/QTY | WT/100 |
|--------|----------|-------|---------|--------|
| 543426 | 4" x 45° | 4     | 50      | 62     |
| 543526 | 5" x 45° | 5     | 40      | 78     |
| 543626 | 6" x 45° | 6     | 25      | 99     |
| 543726 | 7" x 45° | 7     | 8/Bndl  | 128    |
| 543826 | 8" x 45° | 8     | 8/Bndl  | 162    |
| 543926 | 9" x 45° | 9     | 8/Bndl  | 181    |

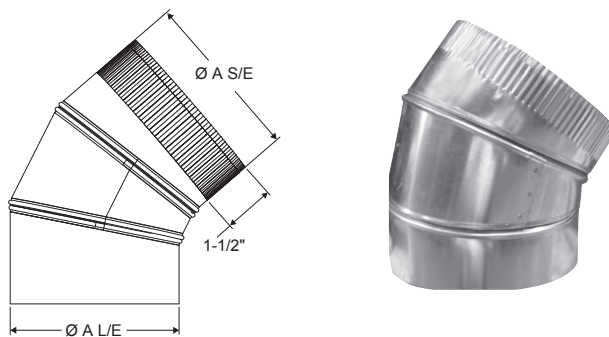
**NOTE:** All Elbows are large end/small end unless otherwise specified.



## 45° ELBOWS — 24 GAUGE

| ITEM # | SIZE      | A (")    | PCS/BNDL | WT/100 |
|--------|-----------|----------|----------|--------|
| 543524 | 5" x 45°  | 5        | 8        | 100    |
| 543624 | 6" x 45°  | 6        | 8        | 126    |
| 543724 | 7" x 45°  | 7        | 8        | 163    |
| 543824 | 8" x 45°  | 8        | 8        | 207    |
| 543924 | 9" x 45°  | 9        | 8        | 230    |
| 544024 | 10" x 45° | 10       | 8        | 308    |
| 544224 | 12" x 45° | 12       | 8        | 368    |
| 544424 | 14" x 45° | 13-15/16 | 8        | 430    |

**NOTE:** All Elbows are large end/small end unless otherwise specified.

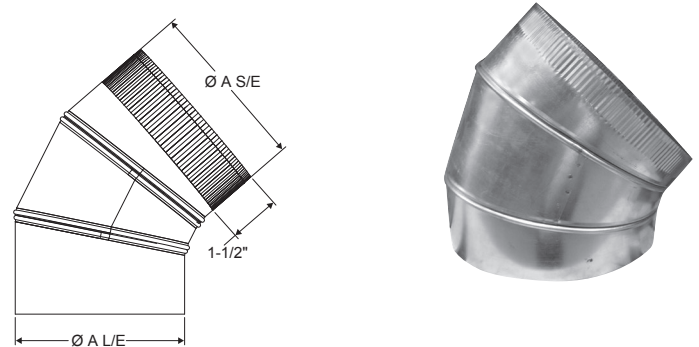




## 45° ELBOWS — 22 GAUGE

| ITEM # | SIZE      | A (")    | PCS/BNDL | WT/100 |
|--------|-----------|----------|----------|--------|
| 543722 | 7" x 45°  | 7        | 8        | 199    |
| 543822 | 8" x 45°  | 8        | 8        | 251    |
| 543922 | 9" x 45°  | 9        | 8        | 281    |
| 544022 | 10" x 45° | 10       | 8        | 375    |
| 544222 | 12" x 45° | 12       | 8        | 448    |
| 544422 | 14" x 45° | 13-15/16 | 8        | 523    |
| 544622 | 16" x 45° | 15-15/16 | 4        | 746    |
| 544822 | 18" x 45° | 17-7/8   | 4        | 837    |
| 545022 | 20" x 45° | 19-7/8   | 4        | 1116   |
| 545222 | 22" x 45° | 21-7/8   | 4        | 1362   |
| 545422 | 24" x 45° | 23-7/8   | 4        | 1484   |

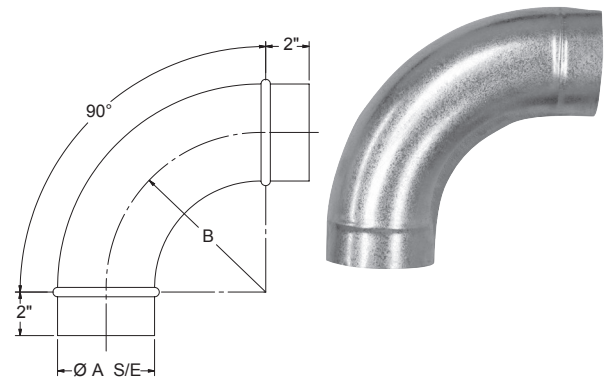
**NOTE:** All Elbows are large end/small end unless otherwise specified.



## 90° ELBOWS DIE STAMPED — 1-1/2 CENTERLINE — WELDED SMALL END/SMALL END — E-90-1

| ITEM # | SIZE      | A (") | B (")  | GA | CTN/QTY | WT/100 |
|--------|-----------|-------|--------|----|---------|--------|
| 548103 | 3" x 90°  | 3     | 4-1/2  | 24 | *       | 80     |
| 548104 | 4" x 90°  | 4     | 6      | 24 | *       | 140    |
| 548105 | 5" x 90°  | 5     | 7-1/2  | 24 | *       | 180    |
| 548106 | 6" x 90°  | 6     | 9      | 24 | *       | 220    |
| 548107 | 7" x 90°  | 7     | 10-1/2 | 24 | *       | 350    |
| 548108 | 8" x 90°  | 8     | 12     | 22 | *       | 470    |
| 548109 | 9" x 90°  | 9     | 13-1/2 | 22 | *       | 610    |
| 548110 | 10" x 90° | 10    | 15     | 22 | *       | 760    |
| 548112 | 12" x 90° | 12    | 18     | 22 | *       | 1020   |

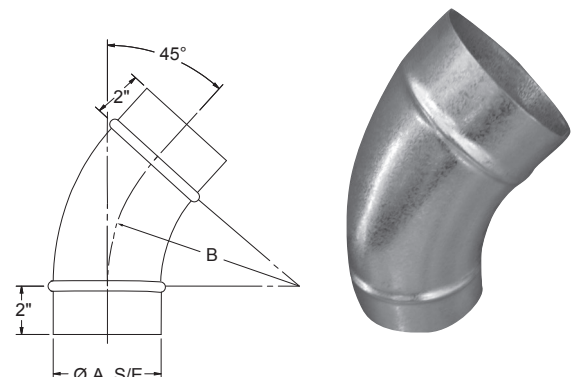
\*Product shipped individually.



## 45° ELBOWS DIE STAMPED — 1-1/2 CENTERLINE — WELDED SMALL END/SMALL END — E-45-1

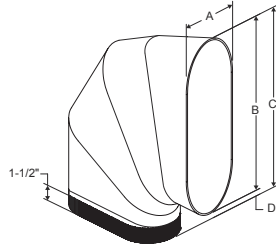
| ITEM # | SIZE      | A (") | B (")  | GA | CTN/QTY | WT/100 |
|--------|-----------|-------|--------|----|---------|--------|
| 548203 | 3" x 45°  | 3     | 4-1/2  | 24 | *       | 60     |
| 548204 | 4" x 45°  | 4     | 6      | 24 | *       | 80     |
| 548205 | 5" x 45°  | 5     | 7-1/2  | 24 | *       | 100    |
| 548206 | 6" x 45°  | 6     | 9      | 24 | *       | 150    |
| 548207 | 7" x 45°  | 7     | 10-1/2 | 24 | *       | 180    |
| 548208 | 8" x 45°  | 8     | 12     | 22 | *       | 300    |
| 548209 | 9" x 45°  | 9     | 13-1/2 | 22 | *       | 350    |
| 548210 | 10" x 45° | 10    | 15     | 22 | *       | 420    |
| 548212 | 12" x 45° | 12    | 18     | 22 | *       | 650    |

\*Product shipped individually.

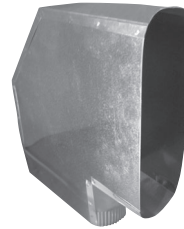
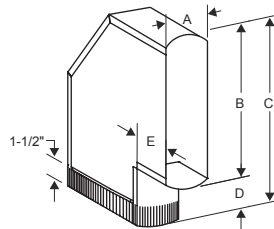


## OVAL ELBOWS LONG WAY 90°

| ITEM # | MODEL  | SIZE (")      | A (") | B (") | C (")  | D (") | CTN/QTY | WT/100 |
|--------|--------|---------------|-------|-------|--------|-------|---------|--------|
| 111936 | GV2062 | 6 (3 × 7-3/4) | 3     | 7-3/4 | 10-1/2 | 2-3/4 | 40      | 180    |

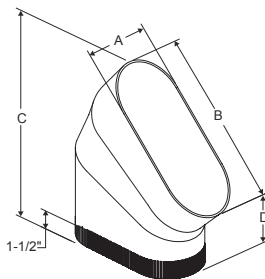


| ITEM # | SIZE (")       | A (") | B (")  | C (")  | D (") | E (") | CTN/QTY | WT/100 |
|--------|----------------|-------|--------|--------|-------|-------|---------|--------|
| 111935 | 5 (3 × 6-1/8)  | 3     | 6-1/8  | 9-1/8  | 3     | 3     | 20      | 130    |
| 111937 | 7 (3 × 9-1/4)  | 3     | 9-1/4  | 12-5/8 | 3-3/8 | 3-1/2 | 20      | 220    |
| 111938 | 8 (3 × 10-7/8) | 3     | 10-7/8 | 14-7/8 | 4     | 4     | 20      | 159    |

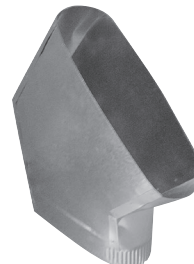
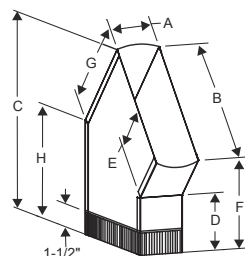


## OVAL ELBOWS LONG WAY 45°

| ITEM # | MODEL  | SIZE (")      | A (") | B (") | C (")  | D (") | CTN/QTY | WT/100 |
|--------|--------|---------------|-------|-------|--------|-------|---------|--------|
| 111945 | GV2058 | 5 (3 × 6-1/8) | 3     | 6-1/8 | 9      | 3-3/4 | 30      | 105    |
| 111946 | GV2059 | 6 (3 × 7-3/4) | 3     | 7-3/4 | 10-1/8 | 4-3/4 | 25      | 120    |
| 111947 | GV2060 | 7 (3 × 9-1/4) | 3     | 9-1/4 | 11-1/2 | 5-3/4 | 15      | 135    |



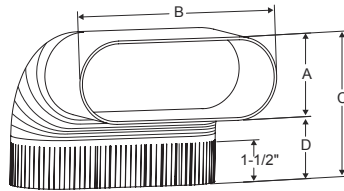
| ITEM # | SIZE (")       | A (") | B (")  | C (")  | D (") | E (") | F (") | G (") | H (") | CTN/QTY | WT/100 |
|--------|----------------|-------|--------|--------|-------|-------|-------|-------|-------|---------|--------|
| 111948 | 8 (3 × 10-7/8) | 3     | 10-7/8 | 13-1/2 | 4     | 4     | 6-3/4 | 8-1/8 | 7-7/8 | 20      | 120    |



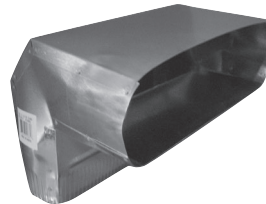
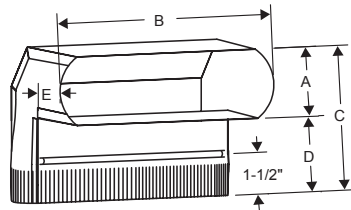
– E.&O.E. – Subject to Change Without Notice – May Not Be Available At All Locations –

## OVAL ELBOWS SHORT WAY 90°

| ITEM # | MODEL  | SIZE (")      | A (") | B (") | C (") | D (") | CTN/QTY | WT/100 |
|--------|--------|---------------|-------|-------|-------|-------|---------|--------|
| 111941 | GV2077 | 5 (3 × 6-1/8) | 3     | 6-1/8 | 6     | 3     | 39      | 105    |
| 111939 | GV2078 | 6 (3 × 7-3/4) | 3     | 7-3/4 | 6-1/4 | 3-1/4 | 30      | 130    |
| 111942 | GV2079 | 7 (3 × 9-1/4) | 3     | 9-1/4 | 7-1/2 | 4-1/2 | 20      | 150    |

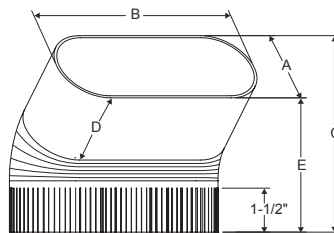


| ITEM # | SIZE (")       | A (") | B (")  | C (") | D (") | E (") | CTN/QTY | WT/100 |
|--------|----------------|-------|--------|-------|-------|-------|---------|--------|
| 111940 | 5 (3 × 6-1/8)  | 3     | 6-1/8  | 6     | 3     | 3     | 20      | 105    |
| 111943 | 8 (3 × 10-7/8) | 3     | 10-7/8 | 7     | 4     | 4     | 20      | 107    |

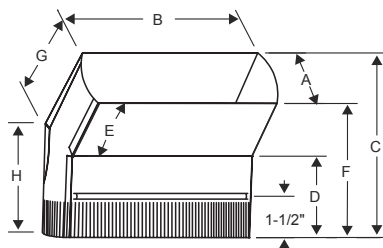


## OVAL ELBOWS SHORT WAY 45°

| ITEM # | MODEL  | SIZE (")      | A (") | B (") | C (") | D (") | E (") | CTN/QTY | WT/100 |
|--------|--------|---------------|-------|-------|-------|-------|-------|---------|--------|
| 111965 | GV2074 | 5 (3 × 6-1/8) | 3     | 6-1/8 | 7     | 2-3/4 | 4-3/4 | 48      | 105    |
| 111966 | GV2075 | 6 (3 × 7-3/4) | 3     | 7-3/4 | 7-3/8 | 2-3/4 | 5-1/4 | 36      | 70     |



| ITEM # | SIZE (")       | A (") | B (")  | C (") | D (") | E (") | F (") | G (") | H (") | CTN/QTY | WT/100 |
|--------|----------------|-------|--------|-------|-------|-------|-------|-------|-------|---------|--------|
| 111967 | 7 (3 × 9-1/4)  | 3     | 9-1/4  | 7-3/4 | 3     | 3     | 5     | 4-1/4 | 4-1/4 | 24      | 90     |
| 111968 | 8 (3 × 10-7/8) | 3     | 10-7/8 | 9     | 4     | 4     | 6-3/4 | 5-1/4 | 5-1/4 | 20      | 95     |



– E.&O.E. – Subject to Change Without Notice – May Not Be Available At All Locations –

## CUSTOM ELBOWS — MANUFACTURED TO MEET YOUR SPECIFICATIONS

To help meet your specific requirements, our sales staff will need to know the pressure class or duct velocity of the system. We can then determine the gauge and construction details. Knowing the degree of the elbow in the pressure class or velocity will also determine the number of segments or gores required.

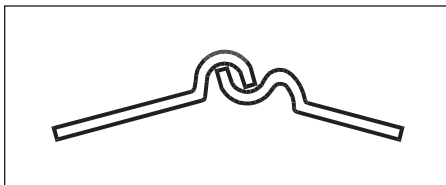
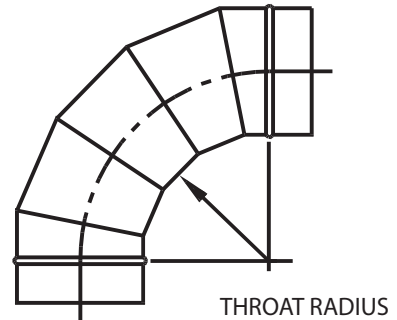
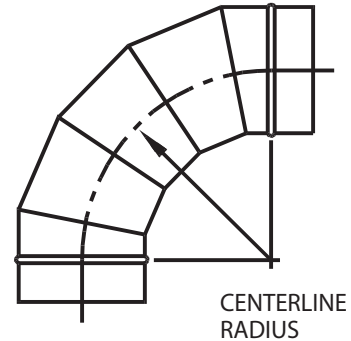
### MITERED ELBOWS

| Duct Velocity    | R/D Ratio Centerline Radius to Duct Diameter | Number of Mitered Pieces |     |     |
|------------------|----------------------------------------------|--------------------------|-----|-----|
|                  |                                              | 90°                      | 60° | 45° |
| Up to 1000 fpm   | 0.6                                          | 3                        | 2   | 2   |
| 1001 to 1500 fpm | 1.0                                          | 4                        | 3   | 2   |
| Above 1500 fpm   | 1.5                                          | 5                        | 4   | 3   |

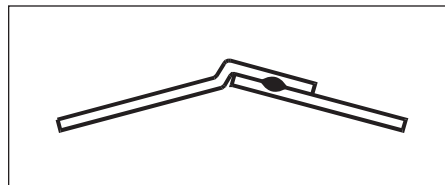
**Source:** SMACNA HVAC Duct Construction Standards

Please specify when ordering:

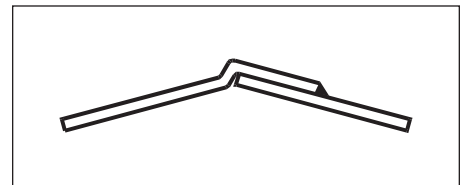
1. Diameter
2. Degree Angle
3. Radius (centerline or throat)
4. Gauge (thickness of material) or pressure class (WG)
5. Number of segments or gores (determined by degree and pressure class) (WG)
6. Material, e.g.: Galvanized; Aluminum; Stainless Steel; PVC Coated; etc.
7. Fitting Connection
  - e.g.: big end/small end rule size;
  - small end/small end spiral size;
  - small end/big end spiral size;
  - big end over spiral/small end into spiral (blow pipe).
8. Construction — determined by pressure class (WG):
  - (a) turned seam;
  - (b) lap and spot;
  - (c) lap and weld;
  - (d) butt weld;
  - (e) standing seam;
  - (f) spiral seam.



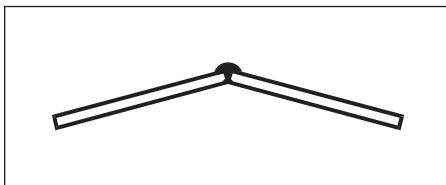
TURNED SEAM



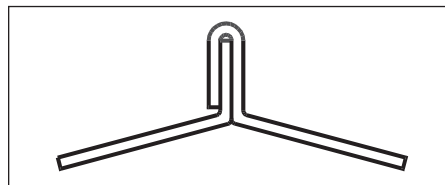
LAP AND SPOT



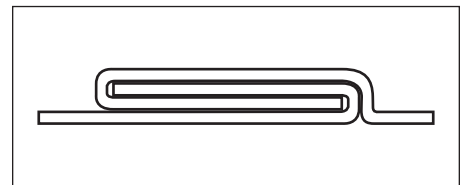
LAP AND WELD



BUTT WELD



STANDING SEAM



SPIRAL SEAM

[illegible]



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