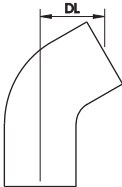
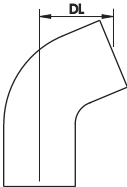
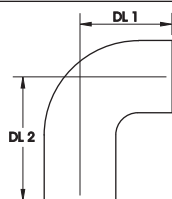
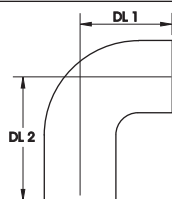


| TUBE BENDS                      |              | 14                 | 15               | 25               | 25HL                      |         |    |         |    |
|---------------------------------|--------------|--------------------|------------------|------------------|---------------------------|---------|----|---------|----|
| IMPERIAL<br>OUTSIDE<br>DIAMETER |              |                    |                  |                  |                           |         |    |         |    |
|                                 |              |                    |                  |                  |                           |         |    |         |    |
|                                 |              |                    |                  |                  |                           |         |    |         |    |
|                                 |              |                    |                  |                  |                           |         |    |         |    |
| TUBE<br>SIZE                    | DASH<br>SIZE | 22.5° TUBE<br>BEND | 30° TUBE<br>BEND | 45° TUBE<br>BEND | 45° TUBE<br>BEND<br>HEAVY |         |    |         |    |
| INCH                            |              | PART NO            | DL               | PART NO          | DL                        | PART NO | DL | PART NO | DL |
| 1/4                             | -04          |                    |                  |                  |                           | 25-04   | 8  |         |    |
| 3/8                             | -06          |                    |                  |                  |                           | 25-06   | 10 |         |    |
| 1/2                             | -08          |                    |                  |                  |                           | 25-08   | 11 |         |    |
| 5/8                             | -10          |                    |                  |                  |                           | 25-10   | 12 |         |    |
| 3/4                             | -12          | 14-12              | 7                | 15-12            | 8                         | 25-12   | 14 | 25HL-12 |    |
| 1                               | -16          | 14-16              | 8                | 15-16            | 9                         | 25-16   | 17 | 25HL-16 |    |
| 1.1/4                           | -20          | 14-20              | 9                | 15-20            | 10                        | 25-20   | 20 | 25HL-20 |    |
| 1.1/2                           | -24          | 14-24              | 12               | 15-24            | 10                        | 25-24   | 23 | 25HL-24 |    |
| 2                               | -32          | 14-32              | 17               |                  |                           | 25-32   | 30 | 25HL-32 |    |

| TUBE BENDS                      |              | 17                                                                                  | 16                                                                                  |         |    |
|---------------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|----|
| IMPERIAL<br>OUTSIDE<br>DIAMETER |              |  |  |         |    |
|                                 |              |                                                                                     |                                                                                     |         |    |
| TUBE<br>SIZE                    | DASH<br>SIZE | 60° TUBE<br>BEND                                                                    | 67.5° TUBE<br>BEND                                                                  |         |    |
| INCH                            |              | PART NO                                                                             | DL                                                                                  | PART NO | DL |
| 1/4                             | -04          |                                                                                     |                                                                                     |         |    |
| 3/8                             | -06          |                                                                                     |                                                                                     |         |    |
| 1/2                             | -08          |                                                                                     |                                                                                     |         |    |
| 5/8                             | -10          |                                                                                     |                                                                                     |         |    |
| 3/4                             | -12          | 17-12                                                                               | 19                                                                                  | 16-12   | 22 |
| 1                               | -16          | 17-16                                                                               | 25                                                                                  | 16-16   | 32 |
| 1.1/4                           | -20          | 17-20                                                                               | 35                                                                                  | 16-20   | 42 |
| 1.1/2                           | -24          | 17-24                                                                               | 38                                                                                  | 16-24   | 53 |
| 2                               | -32          |                                                                                     |                                                                                     | 16-32   | 75 |

## TUBE BENDS 24A 24B

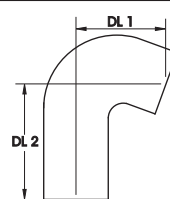
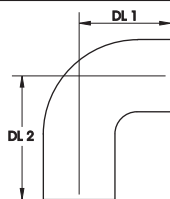
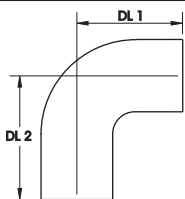
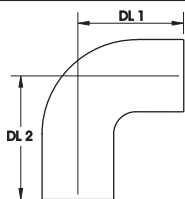
IMPERIAL  
OUTSIDE  
DIAMETER



| TUBE BEND | DASH SIZE | 90° SPECIAL LONG TUBE BEND | 90° SPECIAL LONG TUBE BEND |
|-----------|-----------|----------------------------|----------------------------|
| INCH      |           | PART NO                    | PART NO                    |
| 1/4       | -04       |                            |                            |
| 3/8       | -06       |                            |                            |
| 1/2       | -08       |                            |                            |
| 5/8       | -10       | 24A-10                     |                            |
| 3/4       | -12       | 24A-12                     | 24B-12                     |
| 1         | -16       |                            |                            |
| 1.1/4     | -20       | 24A-20                     | 24B-20                     |
| 1.1/2     | -24       | 24A-24                     | 24B-24                     |
| 2         | -32       | 24A-32                     |                            |

## TUBE BENDS 24 24HL 21 91

IMPERIAL  
OUTSIDE  
DIAMETER



| TUBE BEND | DASH SIZE | 90° TUBE BEND | 90° TUBE BEND HEAVY | 90° LONG TUBE BEND | 110° LONG TUBE BEND |
|-----------|-----------|---------------|---------------------|--------------------|---------------------|
| INCH      |           | PART NO       | PART NO             | PART NO            | PART NO             |
| 1/4       | -04       | 24-04         |                     | 21-04              |                     |
| 3/8       | -06       | 24-06         |                     | 21-06              |                     |
| 1/2       | -08       | 24-08         |                     | 21-08              |                     |
| 5/8       | -10       | 24-10         |                     | 21-10              |                     |
| 3/4       | -12       | 24-12         | 24HL-12             | 21-12              |                     |
| 1         | -16       | 24-16         | 24HL-16             | 21-16              |                     |
| 1.1/4     | -20       | 24-20         | 24HL-20             | 21-20              |                     |
| 1.1/2     | -24       | 24-24         | 24HL-24             | 21-24              | 91-24               |
| 2         | -32       | 24-32         | 24HL-32             |                    | 91-32               |

Note: Tube Bends can be used in conjunction with S112 Tube Joiners shown on page 272, when a tube bender is not available, or tighter bends than can be achieved by bending hydraulic tube are required.

Drop Lengths (DL) dimensions are in millimetres.