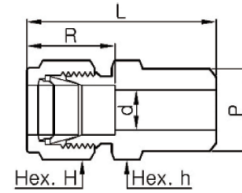


# Weld Connectors

## MCW

### Butt Weld Connector

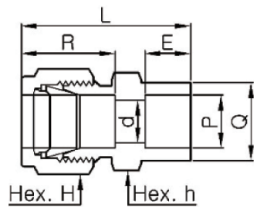


| Part Number | Tube OD |      | Pipe P | Dimensions |      |       |        |       |
|-------------|---------|------|--------|------------|------|-------|--------|-------|
|             | inch    | mm   |        | d          | R    | L     | h      | H     |
| MCW 2- 2P   | 1/8     | 3.2  | 1/8    | 2.3        | 12.7 | 30.5  | 7/16   | 7/16  |
| MCW 3- 2P   | 3/16    | 4.8  | 1/8    | 3.0        | 13.7 | 31.2  | 7/16   | 1/2   |
| MCW 4- 2P   | 1/4     | 6.4  | 1/8    | 4.8        | 15.2 | 32.8  | 1/2    | 9/16  |
| MCW 4- 4P   | 1/4     | 6.4  | 1/4    | 4.8        | 15.2 | 37.8  | 9/16   | 9/16  |
| MCW 5- 2P   | 5/16    | 7.9  | 1/8    | 5.3        | 16.3 | 34.0  | 9/16   | 5/8   |
| MCW 5- 4P   | 5/16    | 7.9  | 1/4    | 6.4        | 16.3 | 38.6  | 9/16   | 5/8   |
| MCW 6- 4P   | 3/8     | 9.5  | 1/4    | 7.1        | 16.8 | 39.9  | 5/8    | 11/16 |
| MCW 6- 6P   | 3/8     | 9.5  | 3/8    | 7.1        | 16.8 | 39.9  | 11/16  | 11/16 |
| MCW 6- 8P   | 3/8     | 9.5  | 1/2    | 7.1        | 16.8 | 46.2  | 7/8    | 11/16 |
| MCW 6- 12P  | 3/8     | 9.5  | 3/4    | 7.1        | 16.8 | 47.8  | 1-1/16 | 11/16 |
| MCW 8- 6P   | 1/2     | 12.7 | 3/8    | 10.4       | 22.9 | 43.4  | 13/16  | 7/8   |
| MCW 8- 8P   | 1/2     | 12.7 | 1/2    | 10.4       | 22.9 | 49.0  | 7/8    | 7/8   |
| MCW 8- 12P  | 1/2     | 12.7 | 3/4    | 10.4       | 22.9 | 50.5  | 1-1/16 | 7/8   |
| MCW 8- 16P  | 1/2     | 12.7 | 1      | 10.4       | 22.9 | 57.2  | 1-3/8  | 7/8   |
| MCW 10- 8P  | 5/8     | 15.9 | 1/2    | 12.7       | 24.4 | 49.0  | 15/16  | 1     |
| MCW 12- 8P  | 3/4     | 19.1 | 1/2    | 14.0       | 24.4 | 50.5  | 1-1/16 | 1-1/8 |
| MCW 12- 12P | 3/4     | 19.1 | 3/4    | 15.7       | 24.4 | 50.5  | 1-1/16 | 1-1/8 |
| MCW 16- 16P | 1       | 25.4 | 1      | 22.4       | 31.2 | 62.2  | 1-3/8  | 1-1/2 |
| MCW 20- 20P | 1-1/4   | 31.8 | 1-1/4  | 27.7       | 41.1 | 77.2  | 1-3/4  | 1-7/8 |
| MCW 24- 24P | 1-1/2   | 38.1 | 1-1/2  | 34.0       | 50.0 | 88.9  | 2-1/8  | 2-1/4 |
| MCW 32- 32P | 2       | 50.8 | 2      | 46.0       | 67.6 | 113.5 | 2-3/4  | 3     |

| Part Number  | Tube OD |       | Pipe P | Dimensions |      |    |    |   |
|--------------|---------|-------|--------|------------|------|----|----|---|
|              | inch    | mm    |        | d          | R    | L  | h  | H |
| MCW 3M- 2P   | 3       | 1/8   | 2.4    | 12.9       | 30.5 | 12 | 12 |   |
| MCW 4M- 2P   | 4       | 1/8   | 2.4    | 13.7       | 31.2 | 12 | 12 |   |
| MCW 6M- 2P   | 6       | 1/8   | 4.8    | 15.3       | 32.8 | 14 | 14 |   |
| MCW 6M- 4P   | 6       | 1/4   | 4.8    | 15.3       | 37.9 | 14 | 14 |   |
| MCW 8M- 2P   | 8       | 1/8   | 5.4    | 16.2       | 34.2 | 15 | 16 |   |
| MCW 8M- 4P   | 8       | 1/4   | 6.4    | 16.2       | 38.7 | 15 | 16 |   |
| MCW 8M- 8P   | 8       | 1/2   | 6.4    | 16.2       | 45.6 | 22 | 16 |   |
| MCW 10M- 4P  | 10      | 1/4   | 7.5    | 17.2       | 40.9 | 18 | 19 |   |
| MCW 10M- 6P  | 10      | 3/8   | 7.9    | 17.2       | 40.9 | 18 | 19 |   |
| MCW 10M- 8P  | 10      | 1/2   | 7.9    | 17.2       | 46.5 | 22 | 19 |   |
| MCW 12M- 4P  | 12      | 1/4   | 7.5    | 22.8       | 43.4 | 22 | 22 |   |
| MCW 12M- 6P  | 12      | 3/8   | 9.5    | 22.8       | 43.4 | 22 | 22 |   |
| MCW 12M- 8P  | 12      | 1/2   | 9.5    | 22.8       | 49.0 | 22 | 22 |   |
| MCW 12M- 12P | 12      | 3/4   | 9.5    | 22.8       | 50.5 | 27 | 22 |   |
| MCW 14M- 6P  | 14      | 3/8   | 10.7   | 24.4       | 44.1 | 24 | 25 |   |
| MCW 15M- 8P  | 15      | 1/2   | 11.9   | 24.4       | 49.0 | 24 | 25 |   |
| MCW 16M- 8P  | 16      | 1/2   | 12.7   | 24.4       | 49.0 | 24 | 25 |   |
| MCW 18M- 8P  | 18      | 1/2   | 13.9   | 24.4       | 50.5 | 27 | 30 |   |
| MCW 30M- 20P | 30      | 1-1/4 | 26.2   | 39.6       | 77.2 | 46 | 50 |   |
| MCW 32M- 20P | 32      | 1-1/4 | 28.6   | 42.0       | 79.6 | 46 | 50 |   |
| MCW 38M- 24P | 38      | 1-1/2 | 33.7   | 49.4       | 91.6 | 55 | 60 |   |

## MCSW

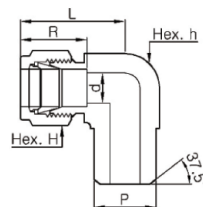
### Socket Weld Connector



| Part Number | Tube OD |      | Pipe P | Dimensions |      |      |        |       |      |      |
|-------------|---------|------|--------|------------|------|------|--------|-------|------|------|
|             | inch    | mm   |        | d          | R    | L    | h      | H     | E    | Q    |
| MCSW 2- 2P  | 1/8     | 3.2  | 1/8    | 2.3        | 12.7 | 30.5 | 7/16   | 7/16  | 2.3  | 7.4  |
| MCSW 4- 4P  | 1/4     | 6.4  | 1/4    | 4.8        | 15.2 | 37.8 | 9/16   | 9/16  | 4.8  | 12.2 |
| MCSW 6- 6P  | 3/8     | 9.5  | 3/8    | 7.1        | 16.8 | 39.9 | 11/16  | 11/16 | 7.1  | 15.2 |
| MCSW 8- 8P  | 1/2     | 12.7 | 1/2    | 10.4       | 22.9 | 49.0 | 7/8    | 7/8   | 10.4 | 18.5 |
| MCSW12- 12P | 3/4     | 19.1 | 3/4    | 15.7       | 24.4 | 50.5 | 1-1/16 | 1-1/8 | 15.7 | 26.4 |
| MCSW16- 16P | 1       | 25.4 | 1      | 22.4       | 31.2 | 62.2 | 1-3/8  | 1-1/2 | 22.4 | 34.5 |

## MLW

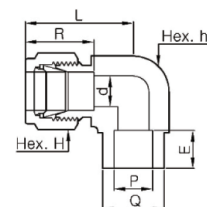
### Butt Weld Elbow



| Part Number | Tube OD |      | Pipe P | Dimensions |      |      |        |       |
|-------------|---------|------|--------|------------|------|------|--------|-------|
|             | inch    | mm   |        | d          | R    | L    | h      | H     |
| MLW 4 - 2P  | 1/4     | 6.4  | 1/8    | 4.8        | 15.2 | 26.9 | 1/2    | 9/16  |
| MLW 4 - 4P  | 1/4     | 6.4  | 1/4    | 4.8        | 15.2 | 26.9 | 1/2    | 9/16  |
| MLW 6 - 4P  | 3/8     | 9.5  | 1/4    | 7.1        | 16.8 | 30.5 | 5/8    | 11/16 |
| MLW 8 - 8P  | 1/2     | 12.7 | 1/2    | 10.4       | 22.9 | 36.1 | 13/16  | 7/8   |
| MLW12 - 12P | 3/4     | 19.1 | 3/4    | 15.7       | 24.4 | 39.9 | 1-1/16 | 1-1/8 |

## MLSW

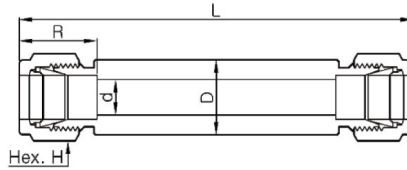
### Socket Weld Elbow



| Part Number  | Tube OD |      | Pipe P | Dimensions |      |      |        |       |      |      |
|--------------|---------|------|--------|------------|------|------|--------|-------|------|------|
|              | inch    | mm   |        | d          | R    | L    | h      | H     | E    | Q    |
| MLSW 4- 4P   | 1/4     | 6.4  | 1/4    | 4.8        | 15.2 | 26.9 | 1/2    | 9/16  | 4.8  | 12.7 |
| MLSW 6- 6P   | 3/8     | 9.5  | 1/4    | 4.8        | 15.2 | 26.9 | 5/8    | 11/16 | 7.1  | 16.0 |
| MLSW 8- 8P   | 1/2     | 12.7 | 1/4    | 7.1        | 16.8 | 30.5 | 13/16  | 7/8   | 10.4 | 20.6 |
| MLSW12 - 12P | 3/4     | 19.1 | 1/2    | 10.4       | 22.9 | 36.1 | 1-1/16 | 1-1/8 | 15.7 | 26.9 |
| MLSW16 - 16P | 1       | 25.4 | 3/4    | 15.7       | 24.4 | 39.9 | 1-3/8  | 1-1/2 | 22.4 | 35.1 |

# MBUW

## Welding Union

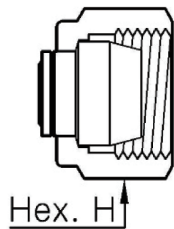


| Part Number | Tube OD |      | Dimensions |      |       |    |       |
|-------------|---------|------|------------|------|-------|----|-------|
|             | inch    | mm   | d          | R    | L     | D  | H     |
| MBUW - 4    | 1/4     | 6.4  | 4.8        | 15.2 | 86.0  | 14 | 9/16  |
| MBUW - 6    | 3/8     | 9.5  | 7.1        | 16.8 | 88.6  | 19 | 11/16 |
| MBUW - 8    | 1/2     | 12.7 | 10.4       | 22.9 | 93.7  | 23 | 7/8   |
| MBUW - 10   | 5/8     | 15.9 | 12.7       | 24.4 | 93.7  | 25 | 1     |
| MBUW - 12   | 3/4     | 19.1 | 15.7       | 24.4 | 93.7  | 28 | 1-1/8 |
| MBUW - 16   | 1       | 25.4 | 22.4       | 31.2 | 102.8 | 35 | 1-1/2 |
| MBUW - 20   | 1-1/4   | 31.8 | 27.7       | 41.1 | 127.7 | 50 | 1-7/8 |
| MBUW - 24   | 1-1/2   | 38.1 | 34.0       | 50.0 | 140.4 | 55 | 2-1/4 |
| MBUW - 32   | 2       | 50.8 | 46.0       | 67.6 | 175.5 | 80 | 3     |

## Plug and Cap

### MP

#### Plug



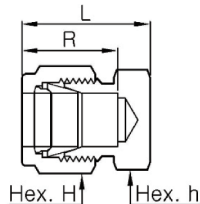
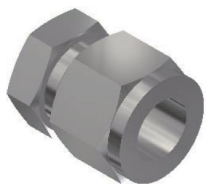
| Part Number | Tube OD |      | Dimensions |  | Part Number | Tube OD | Dimensions |  |
|-------------|---------|------|------------|--|-------------|---------|------------|--|
|             | inch    | mm   | H          |  |             |         | H          |  |
| MP - 1      | 1/16    | 1.6  | 5/16       |  | MP - 2M     | 2       | 12         |  |
| MP - 2      | 1/8     | 3.2  | 7/16       |  | MP - 3M     | 3       | 12         |  |
| MP - 3      | 3/16    | 4.8  | 1/2        |  | MP - 4M     | 4       | 12         |  |
| MP - 4      | 1/4     | 6.4  | 9/16       |  | MP - 6M     | 6       | 14         |  |
| MP - 5      | 5/16    | 7.9  | 5/8        |  | MP - 8M     | 8       | 16         |  |
| MP - 6      | 3/8     | 9.5  | 11/16      |  | MP - 10M    | 10      | 19         |  |
| MP - 8      | 1/2     | 12.7 | 7/8        |  | MP - 12M    | 12      | 22         |  |
| MP - 10     | 5/8     | 15.9 | 1          |  | MP - 14M    | 14      | 25         |  |
| MP - 12     | 3/4     | 19.1 | 1-1/8      |  | MP - 16M    | 16      | 25         |  |
| MP - 14     | 3/4     | 22.2 | 1-1/4      |  | MP - 18M    | 18      | 30         |  |
| MP - 16     | 1       | 25.4 | 1-1/2      |  | MP - 20M    | 20      | 32         |  |
| MP - 20     | 1-1/4   | 25.4 | 1-7/8      |  | MP - 22M    | 22      | 32         |  |
| MP - 24     | 1-1/2   | 25.4 | 2-1/4      |  | MP - 25M    | 25      | 38         |  |
| MP - 32     | 2       | 25.4 | 3          |  | MP - 28M    | 28      | 46         |  |
|             |         |      |            |  | MP - 30M    | 30      | 46         |  |
|             |         |      |            |  | MP - 32M    | 32      | 50         |  |
|             |         |      |            |  | MP - 38M    | 38      | 60         |  |

#### Installation Instruction

While holding fitting body steady, tighten the plug 1/4 turn from the finger-tight position.  
For 1/16", 1/8", and 3/16" (2, 3, and 4 mm) tube fittings, tighten the plug 1/8 turn.

### MC

#### Cap



| Part Number | Tube OD |       | Dimensions |      |        |       | Part Number | Tube OD | Dimensions |      |    |    |
|-------------|---------|-------|------------|------|--------|-------|-------------|---------|------------|------|----|----|
|             | inch    | mm    | R          | L    | h      | H     |             |         | R          | L    | h  | H  |
| MC - 1      | 1/16    | 1.59  | 8.6        | 15.0 | 5/16   | 5/16  | MC - 2M     | 2       | 12.9       | 20.1 | 12 | 12 |
| MC - 2      | 1/8     | 3.18  | 12.7       | 20.1 | 7/16   | 7/16  | MC - 3M     | 3       | 12.9       | 20.1 | 12 | 12 |
| MC - 3      | 3/16    | 4.76  | 13.7       | 21.3 | 7/16   | 1/2   | MC - 4M     | 4       | 13.7       | 21.3 | 12 | 12 |
| MC - 4      | 1/4     | 6.35  | 15.2       | 23.4 | 1/2    | 9/16  | MC - 6M     | 6       | 15.3       | 23.1 | 14 | 14 |
| MC - 5      | 5/16    | 7.94  | 16.3       | 24.4 | 9/16   | 5/8   | MC - 8M     | 8       | 16.2       | 24.5 | 15 | 16 |
| MC - 6      | 3/8     | 9.53  | 16.8       | 25.7 | 5/8    | 11/16 | MC - 10M    | 10      | 17.2       | 26.6 | 18 | 19 |
| MC - 8      | 1/2     | 12.70 | 22.9       | 30.7 | 13/16  | 7/8   | MC - 12M    | 12      | 22.8       | 30.6 | 22 | 22 |
| MC - 10     | 5/8     | 15.88 | 24.4       | 31.5 | 15/16  | 1     | MC - 16M    | 16      | 24.4       | 31.4 | 24 | 25 |
| MC - 12     | 3/4     | 19.05 | 24.4       | 32.3 | 1-1/16 | 1-1/8 | MC - 18M    | 18      | 24.4       | 32.2 | 27 | 30 |
| MC - 14     | 7/8     | 22.23 | 25.9       | 34.8 | 1-3/16 | 1-1/4 | MC - 20M    | 20      | 26.0       | 34.8 | 30 | 32 |
| MC - 16     | 1       | 25.40 | 31.2       | 40.9 | 1-3/8  | 1-1/2 | MC - 22M    | 22      | 26.0       | 34.8 | 30 | 32 |
| MC - 20     | 1-1/4   | 31.75 | 41.1       | 53.3 | 1-3/4  | 1-7/8 | MC - 25M    | 25      | 31.3       | 41.0 | 35 | 38 |
| MC - 24     | 1-1/2   | 38.10 | 50.0       | 64.5 | 2-1/8  | 2-1/4 | MC - 28M    | 28      | 36.6       | 48.5 | 41 | 46 |
| MC - 32     | 2       | 50.80 | 67.6       | 86.6 | 2-3/4  | 3     | MC - 30M    | 30      | 39.6       | 53.4 | 46 | 50 |
|             |         |       |            |      |        |       | MC - 32M    | 32      | 42.0       | 55.8 | 46 | 50 |
|             |         |       |            |      |        |       | MC - 38M    | 38      | 49.4       | 65.4 | 55 | 60 |