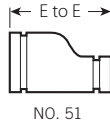


# Grooved End Fittings

## Concentric/Eccentric Reducer

**NO. 50** Concentric  
**NO. 51** Eccentric



| Size          | No. 50 Concentric Reducer |                  | No. 51 Eccentric Reducer    |                  |                             |
|---------------|---------------------------|------------------|-----------------------------|------------------|-----------------------------|
|               | Nominal Size Inches mm    | E to E Inches mm | Approx. Weight Each Lbs. kg | E to E Inches mm | Approx. Weight Each Lbs. kg |
| 1 1/4 × 3/4   | 32 × 20                   | +                | 1.9<br>0.9                  | —                | —                           |
|               | 1 × 25                    | +                | 1.9<br>0.9                  | —                | —                           |
| 1 1/2 × 1     | 32 × 20                   | +                | 1.4<br>0.6                  | —                | —                           |
|               | 1 × 25                    | 2.50<br>64       | 0.8<br>0.4                  | 8.50 (SW)<br>216 | 4.5<br>2.0                  |
|               | 1 1/4 × 32                | 2.50<br>64       | 1.0<br>0.5                  | —                | —                           |
| 2 × 1 1/4     | 32 × 20                   | 2.50<br>64       | 0.9<br>0.3                  | 9.00 (SW)<br>229 | 2.0<br>0.9                  |
|               | 1 × 25                    | 2.50<br>64       | 0.7<br>0.3                  | 9.00 (SW)<br>229 | 2.3<br>1.0                  |
|               | 1 1/4 × 32                | 2.50<br>64       | 1.2<br>0.5                  | 9.00 (SW)<br>229 | 4.6<br>2.1                  |
|               | 1 1/2 × 40                | 3.50<br>89       | 1.0<br>0.5                  | 3.50<br>89       | 1.1<br>0.5                  |
|               | 2 1/2 × 65                | 3.50<br>89       | 1.3<br>0.6                  | —                | —                           |
| 2 1/2 × 1 1/2 | 32 × 20                   | +                | 1.1<br>0.5                  | 9.50 (SW)<br>241 | 3.5<br>1.6                  |
|               | 1 × 25                    | 2.50<br>64       | 0.7<br>0.3                  | 9.50 (SW)<br>241 | 2.3<br>1.0                  |
|               | 1 1/4 × 32                | 3.50<br>89       | 1.2<br>0.5                  | 9.50 (SW)<br>241 | 4.6<br>2.1                  |
|               | 1 1/2 × 40                | 3.50<br>89       | 1.0<br>0.5                  | 3.50<br>89       | 1.1<br>0.5                  |
|               | 2 × 50                    | 2.50<br>64       | 0.9<br>0.3                  | 9.50 (SW)<br>241 | 2.0<br>0.9                  |
|               | 2 1/2 × 65                | 3.50<br>89       | 1.3<br>0.6                  | —                | —                           |
| 3 × 2 1/2     | 32 × 20                   | +                | 1.5<br>0.7                  | +                | 4.5<br>2.0                  |
|               | 1 × 25                    | 2.50<br>64       | 1.3<br>0.6                  | 9.50 (SW)<br>241 | 4.8<br>2.2                  |
|               | 1 1/4 × 32                | 2.50<br>64       | 1.4<br>0.6                  | +                | 4.8<br>2.2                  |
|               | 1 1/2 × 40                | 2.50<br>64       | 5.1<br>2.3                  | 9.50 (SW)<br>241 | 5.1<br>2.3                  |
|               | 2 × 50                    | 2.50<br>64       | 1.6<br>0.7                  | 3.50<br>89       | 6.0<br>2.7                  |
|               | 2 1/2 × 65                | 2.50<br>64       | 1.8<br>0.8                  | 3.50<br>89       | 7.0<br>3.2                  |
|               | 76.1                      | 2.50<br>64       | 2.1<br>1.0                  | —                | —                           |

| Size      | No. 50 Concentric Reducer |                   | No. 51 Eccentric Reducer    |                   |                             |
|-----------|---------------------------|-------------------|-----------------------------|-------------------|-----------------------------|
|           | Nominal Size Inches mm    | E to E Inches mm  | Approx. Weight Each Lbs. kg | E to E Inches mm  | Approx. Weight Each Lbs. kg |
| 3 1/2 × 3 | 90 × 80                   | 2.50<br>64        | 2.0<br>0.9                  | 9.50 (SW)<br>241  | 7.0<br>3.2                  |
|           | 4 × 1                     | 3.00<br>76        | 3.0<br>1.4                  | 13.00 (SW)<br>330 | 6.5<br>2.9                  |
| 4 × 1 1/2 | 100 × 25                  | +                 | 4.6<br>2.1                  | —                 | —                           |
|           | 1 1/2 × 40                | 3.00 (SW)<br>76   | 2.6<br>1.2                  | 10.00 (SW)<br>254 | 8.1<br>3.7                  |
|           | 2 × 50                    | 3.00<br>76        | 2.4<br>1.1                  | 4.00<br>102       | 3.3<br>1.5                  |
|           | 2 1/2 × 65                | 3.00<br>76        | 2.7<br>1.2                  | 4.00<br>102       | 3.4<br>1.5                  |
|           | 3 × 80                    | 3.00<br>76        | 3.2<br>1.4                  | 4.00<br>102       | 3.5<br>1.6                  |
|           | 3 1/2 × 90                | 3.00<br>76        | 2.9<br>1.3                  | 10.00 (SW)<br>254 | 8.0<br>3.6                  |
| 5 × 2 1/2 | 125 × 50                  | 11.00 (SW)<br>279 | 9.0<br>4.1                  | 11.00 (SW)<br>279 | 5.2<br>2.4                  |
|           | 2 1/2 × 65                | 4.00<br>102       | 4.3<br>2.0                  | 11.00 (SW)<br>279 | 10.8<br>4.9                 |
|           | 3 × 80                    | 4.00<br>102       | 5.5<br>2.5                  | 11.00 (SW)<br>279 | 11.1<br>5.0                 |
|           | 4 × 100                   | 3.50<br>89        | 4.3<br>1.9                  | 5.00<br>127       | 12.0<br>5.4                 |
| 6 × 1 1/2 | 150 × 25                  | 4.00<br>102       | 5.0<br>2.3                  | 11.50 (SW)<br>292 | 14.5<br>6.6                 |
|           | 1 1/2 × 40                | +                 | 5.5<br>2.5                  | +                 | +                           |
|           | 2 × 50                    | 4.00<br>102       | 6.6<br>3.0                  | 11.50 (SW)<br>292 | 14.5<br>6.6                 |
|           | 2 1/2 × 65                | 4.00<br>102       | 6.4<br>2.9                  | 11.50 (SW)<br>292 | 14.2<br>6.4                 |
|           | 3 × 80                    | 4.00<br>102       | 6.4<br>2.9                  | 5.50<br>140       | 15.0<br>6.8                 |
|           | 4 × 100                   | 4.00<br>102       | 6.5<br>2.9                  | 5.50<br>140       | 17.0<br>7.7                 |
| 8 × 3     | 200 × 65                  | 16.00<br>406      | 7.9<br>3.6                  | 12.00 (SW)<br>305 | 26.1<br>11.8                |
|           | 3 × 80                    | 5.00<br>127       | 9.3<br>4.2                  | 12.00 (SW)<br>305 | 22.0<br>10.0                |

Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s".  
SW= Segmentally Welded. S= Carbon Steel

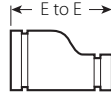
# Grooved End Fittings

## Concentric/Eccentric Reducer

**NO. 50** Concentric  
**NO. 51** Eccentric



NO. 50



NO. 51

| Size                   |   | No. 50 Concentric Reducer |                             | No. 51 Eccentric Reducer |                             |              |
|------------------------|---|---------------------------|-----------------------------|--------------------------|-----------------------------|--------------|
| Nominal Size Inches mm |   | E to E Inches mm          | Approx. Weight Each Lbs. kg | E to E Inches mm         | Approx. Weight Each Lbs. kg |              |
| 8<br>200               | x | 4<br>100                  | 5.00<br>127                 | 10.4<br>4.8              | 12.00 (SW)<br>305           | 23.0<br>10.4 |
|                        |   | 5<br>125                  | 5.00<br>127                 | 11.6<br>5.2              | 12.00 (SW)<br>305           | 23.0<br>10.4 |
|                        |   | 6<br>150                  | 5.00<br>127                 | 11.9<br>5.4              | 6.00<br>152                 | 24.0<br>10.9 |
| 10<br>250              | x | 4<br>100                  | 6.00<br>152                 | 19.7<br>8.9              | 13.00 (SW)<br>330           | 32.0<br>14.5 |
|                        |   | 5<br>125                  | +                           | 34.3<br>15.6             | +                           | 34.6<br>15.7 |
|                        |   | 6<br>150                  | 6.00<br>152                 | 20.0<br>9.1              | 13.00 (SW)<br>330           | 36.9<br>16.7 |
|                        |   | 8<br>200                  | 6.00<br>152                 | 22.0<br>10.0             | 7.00<br>178                 | 21.6<br>9.8  |
| 12<br>300              | x | 4<br>100                  | +                           | 44.0<br>20.0             | 14.00 (SW)<br>356           | 48.0<br>21.8 |
|                        |   | 6<br>150                  | 7.00<br>178                 | 24.6<br>11.2             | 14.00 (SW)<br>356           | 50.0<br>22.7 |
|                        |   | 8<br>200                  | 7.00<br>178                 | 52.0<br>23.6             | 14.00 (SW)<br>356           | 53.5<br>24.3 |
|                        |   | 10<br>250                 | 7.00<br>178                 | 39.0<br>17.7             | 14.00 (SW)<br>356           | 57.0<br>25.9 |
| # 14<br>350            | x | 6<br>150                  | 13.00<br>330                | 65.0<br>29.5             | 13.00<br>330                | 60.0<br>27.2 |
|                        |   | 8<br>200                  | 13.00<br>330                | 65.0<br>29.5             | 13.00<br>330                | 60.0<br>27.2 |
|                        |   | 10<br>250                 | 13.00<br>330                | 66.0<br>29.9             | 13.00<br>330                | 65.0<br>29.5 |
|                        |   | 12<br>300                 | 13.00<br>330                | 68.0<br>30.8             | 13.00<br>330                | 66.0<br>29.9 |
| # 16<br>400            | x | 8<br>200                  | 14.00<br>356                | 73.0<br>33.1             | 14.00<br>355                | 73.0<br>33.1 |
|                        |   | 10 §<br>250               | 14.00<br>356                | 73.0<br>33.1             | 14.00<br>355                | 73.0<br>33.1 |
|                        |   | 12<br>300                 | 14.00<br>356                | 73.0<br>33.1             | 14.00<br>355                | 73.0<br>33.1 |
|                        |   | 14<br>350                 | 14.00<br>356                | 73.0<br>33.1             | 14.00<br>355                | 73.0<br>33.1 |
| # 18<br>450            | x | 10<br>250                 | 15.00<br>381                | 91.0<br>41.3             | 15.00<br>381                | 91.0<br>41.3 |

| Size                   |   | No. 50 Concentric Reducer                                     |                             | No. 51 Eccentric Reducer |                             |               |
|------------------------|---|---|-----------------------------|--------------------------|-----------------------------|---------------|
| Nominal Size Inches mm |   | E to E Inches mm  | Approx. Weight Each Lbs. kg | E to E Inches mm         | Approx. Weight Each Lbs. kg |               |
| # 18<br>450            | x | 12<br>300   | 15.00<br>381                | 91.0<br>41.3             | 15.00<br>381                | 91.0<br>41.3  |
|                        |   | 14<br>350   | 15.00<br>381                | 91.0<br>41.3             | 15.00<br>381                | 91.0<br>41.3  |
|                        |   | 16<br>400   | 15.00<br>381                | 91.0<br>41.3             | 15.00<br>381                | 91.0<br>41.3  |
| # 20<br>500            | x | 10<br>250   | 20.00<br>508                | 110.0<br>49.9            | 20.00<br>508                | 177.0<br>80.3 |
|                        |   | 12<br>300   | 20.00<br>508                | 120.0<br>54.4            | 20.00<br>508                | 120.0<br>54.4 |
|                        |   | 14<br>350   | 20.00<br>508                | 149.0<br>67.9            | 20.00<br>508                | 149.0<br>67.9 |
|                        |   | 16<br>400   | 20.00<br>508                | 120.0<br>54.4            | 20.00<br>508                | 120.0<br>54.4 |
|                        |   | 18<br>450   | 20.00<br>508                | 136.0<br>61.7            | 20.00<br>508                | 136.0<br>61.7 |
| # 24<br>600            | x | 10<br>250   | 20.00<br>508                | 142.0<br>64.4            | 20.00<br>508                | 142.0<br>64.4 |
|                        |   | 12<br>300   | 20.00<br>508                | 150.0<br>68.0            | 20.00<br>508                | 150.0<br>68.0 |
|                        |   | 14<br>350   | 20.00<br>508                | 162.0<br>73.5            | 20.00<br>508                | 162.0<br>73.5 |
|                        |   | 16<br>400   | 20.00<br>508                | 162.0<br>73.5            | 20.00<br>508                | 162.0<br>73.5 |
|                        |   | 18<br>450   | 20.00<br>508                | 162.0<br>73.5            | 20.00<br>508                | 162.0<br>73.5 |
|                        |   | 20<br>500   | 20.00<br>508                | 151.0<br>68.5            | 20.00<br>508                | 190.0<br>86.2 |
| 14 - 24<br>350 - 600   |   | <b>AGS</b> For AGS fitting information, see publication 20.05 |                             |                          |                             |               |

+ Contact Victaulic for details.

\* Available with male threaded small end No. 52.

Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s". SW= Segmentally Welded. S= Carbon Steel

**IMPORTANT NOTE:**

Steel eccentric reducers available through 30"/750mm, contact Victaulic for dimensions.

# For use on cut grooved systems only. For roll grooved systems, Victaulic offers the Advanced Groove System (AGS). For pricing and availability of cut groove fittings in this size, contact your nearest Victaulic sales office.

§ Cast fitting available for JIS size. Contact Victaulic for details.

# Grooved End Fittings

## Small Threaded Reducer

NO. 52



NO. 52



NO. 52F

| Size     | No. 52<br>Small Threaded Reducer |                        | No. 52F<br>Concentric Reducer with BSPT<br>Female Threaded End |                        |                                      |
|----------|----------------------------------|------------------------|--|------------------------|--------------------------------------|
|          | Nominal Size<br>Inches<br>mm     | E to E<br>Inches<br>mm | Approx.<br>Weight Each<br>Lbs.<br>kg                           | E to E<br>Inches<br>mm | Approx.<br>Weight Each<br>Lbs.<br>kg |
| 1½<br>40 | 1<br>25                          | 2.50<br>64             | 0.8<br>0.4   | —                      | —                                    |
|          | 1¼<br>32                         | 2.50<br>64             | 0.9<br>0.4   | —                      | —                                    |
| 2<br>50  | ¾<br>20                          | 2.50<br>64             | 0.9<br>0.4   | —                      | —                                    |
|          | 1<br>25                          | 2.50<br>64             | 0.7<br>0.3   | —                      | —                                    |
|          | 1¼<br>32                         | 2.50<br>64             | 1.2<br>0.5   | —                      | —                                    |
|          | 1½<br>40                         | 2.50<br>64             | 1.0<br>0.5   | —                      | —                                    |
| 2½<br>65 | 1<br>25                          | 2.50<br>64             | 1.1<br>0.5   | —                      | —                                    |
|          | 1¼<br>32                         | 2.50 (sw)<br>64        | 1.2<br>0.5   | —                      | —                                    |
|          | 1½<br>40                         | 2.50 (sw)<br>64        | 1.3<br>0.6   | —                      | —                                    |
|          | 2<br>50                          | 3.00<br>76             | 1.4<br>0.6   | —                      | —                                    |
| 76.1     | 48.3                             | 63.5                   | 0.8  | 63.5                   | 0.77                                 |
|          | 60                               | —                      | —  | 63.5                   | 0.85                                 |
| 3<br>80  | ¾<br>20                          | +(sw)                  | 1.5<br>0.7   | —                      | —                                    |
|          | 1<br>25                          | 2.50<br>64             | 1.3<br>0.6   | —                      | —                                    |
|          | 1¼<br>32                         | 2.50<br>64             | 1.5<br>0.7   | —                      | —                                    |
|          | 1½<br>40                         | 2.50 (sw)<br>64        | 1.5<br>0.7   | —                      | —                                    |
|          | 2<br>50                          | 2.50<br>64             | 1.5<br>0.7   | —                      | —                                    |
|          | 2½<br>65                         | 2.50<br>64             | 2.4<br>1.1   | —                      | —                                    |
| 88.9     | 42.4                             | 63.5                   | 0.9  | 63.5                   | 0.82                                 |
|          | 48.3                             | 63.5                   | 0.9  | 63.5                   | 0.85                                 |
|          | 60                               | —                      | —  | 63.5                   | 0.89                                 |
| 4<br>100 | 1<br>25                          | 3.00<br>76             | 2.3<br>1.0   | —                      | —                                    |
|          | 1½<br>40                         | 3.00<br>76             | 2.7<br>1.2   | —                      | —                                    |
|          | 2<br>50                          | 3.00<br>76             | 2.6<br>1.2   | —                      | —                                    |

| Size     | No. 52<br>Small Threaded Reducer |                        | No. 52F<br>Concentric Reducer with BSPT<br>Female Threaded End |                        |                                      |
|----------|----------------------------------|------------------------|--|------------------------|--------------------------------------|
|          | Nominal Size<br>Inches<br>mm     | E to E<br>Inches<br>mm | Approx.<br>Weight Each<br>Lbs.<br>kg                           | E to E<br>Inches<br>mm | Approx.<br>Weight Each<br>Lbs.<br>kg |
| 4<br>100 | 2½<br>65                         | 3.00<br>76             | 2.6<br>1.2   | —                      | —                                    |
|          | 3<br>80                          | 3.00<br>76             | 2.5<br>1.1   | —                      | —                                    |
| 108      | 42.4                             | 76.2                   | 1.3  | 76.2                   | 1.32                                 |
|          | 48.3                             | 76.2                   | 1.3  | 76.2                   | 1.35                                 |
|          | 60                               | —                      | —  | 76.2                   | 1.39                                 |
| 114.3    | 42.4                             | 76.2                   | 1.3  | 76.2                   | 1.30                                 |
|          | 48.3                             | 76.2                   | 1.3  | 76.2                   | 1.34                                 |
|          | 60                               | —                      | —  | 76.2                   | 1.40                                 |
| 5<br>125 | 4<br>100                         | +                      | 4.5<br>2.0   | —                      | —                                    |
|          | 133                              | 60                     | —  | 114.3                  | 2.17                                 |
| 139      | 60                               | —                      | 114.3  | 2.26                   |                                      |
| 6<br>150 | 1<br>25                          | 4.00<br>102            | 5.5<br>2.5   | —                      | —                                    |
|          | 2<br>50                          | 4.00<br>102            | 5.7<br>2.6   | —                      | —                                    |
|          | 2½<br>65                         | 4.00<br>102            | 5.8<br>2.6   | —                      | —                                    |
|          | 3<br>80                          | 4.00<br>102            | 5.8<br>2.6   | —                      | —                                    |
|          | 4<br>100                         | +(sw)                  | 6.5<br>2.9   | —                      | —                                    |
|          | 5<br>125                         | +(sw)                  | 2.0<br>0.9   | —                      | —                                    |
| 159      | 42.4                             | 114.3                  | 2.2  | 114.3                  | 2.45                                 |
|          | 48.3                             | 114.3                  | 2.2  | 114.3                  | 2.51                                 |
|          | 60                               | —                      | —  | 114.3                  | 2.60                                 |
| 165.1    | 42.4                             | 101.6                  | 2.4  | 101.6                  | 2.90                                 |
|          | 48.3                             | 101.6                  | 2.6  | 101.6                  | 2.95                                 |
|          | 60                               | —                      | —  | 101.6                  | 3.00                                 |
| 8<br>200 | 2<br>50                          | 16.00<br>406           | 1.5<br>0.7   | —                      | —                                    |
|          | 2½<br>65                         | 16.00<br>406           | 1.7<br>0.8   | —                      | —                                    |

+ Contact Victaulic for details.

Note: All fittings are ductile iron unless otherwise noted with an "sw" or "s".  
SW= Segmentally Welded. S= Carbon Steel

**IMPORTANT NOTE:**

Available with British Standard Pipe Threads, specify "BSP" clearly on order

## Grooved End Fittings

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**INSTALLATION**

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at [www.victaulic.com](http://www.victaulic.com).

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**WARRANTY**

Refer to the Warranty section of the current Price List or contact Victaulic for details.

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**NOTE**

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.