

## Performance Data Sheet – Ductile Iron Couplings on Carbon Steel & Stainless Steel Pipe

The following tables show maximum working pressures (CWP) of Shurjoint ductile iron couplings and flange adapters used on both carbon steel and stainless steel pipes. Shurjoint ductile iron couplings can be used in conjunction with stainless steel pipe in non-corrosive environment as the flow media does not come in direct contact with the coupling housings but rather only the gasket. Stated pressure ratings have been developed with a safety factor. Please see Shurjoint's 2017 online installation instructions for most recently updated instructions. Proper installation is important to proper performance.

Unit: psi / Bar

| Model Z05 on Carbon Steel Pipe |             |     |              |         |        |
|--------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                      | Cut-Grooved |     | Roll-Grooved |         |        |
|                                | XS          | STD | STD          | Sch. 10 | Sch. 5 |
| 1¼                             | 600         | 600 | 500          | 400     | 250    |
| 32                             | 42          | 42  | 35           | 28      | 17     |
| 1½                             | 600         | 600 | 500          | 400     | 250    |
| 40                             | 42          | 42  | 35           | 28      | 17     |
| 2                              | 600         | 600 | 500          | 400     | 250    |
| 50                             | 42          | 42  | 35           | 28      | 17     |
| 2½                             | 600         | 600 | 500          | 400     | 250    |
| 65                             | 42          | 42  | 35           | 28      | 17     |
| 3                              | 600         | 600 | 500          | 400     | 250    |
| 80                             | 42          | 42  | 35           | 28      | 17     |
| 4                              | 600         | 600 | 500          | 400     | 200    |
| 100                            | 42          | 42  | 35           | 28      | 14     |
| 5                              | 450         | 450 | 350          | 300     | 175    |
| 125                            | 31          | 31  | 24           | 20      | 12     |
| 6                              | 450         | 450 | 350          | 300     | 175    |
| 150                            | 31          | 31  | 24           | 20      | 12     |
| 8                              | 450         | 450 | 350          | 300     | 150    |
| 200                            | 31          | 31  | 24           | 20      | 10     |

Unit: psi / Bar

| Model Z05 on Stainless Steel Pipe |             |          |              |          |         |
|-----------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                         | Cut-Grooved |          | Roll-Grooved |          |         |
|                                   | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| 1¼                                | 600         | 600      | 450          | 300      | 250     |
| 32                                | 42          | 42       | 31           | 20       | 17      |
| 1½                                | 600         | 600      | 450          | 300      | 250     |
| 40                                | 42          | 42       | 31           | 20       | 17      |
| 2                                 | 600         | 600      | 450          | 300      | 250     |
| 50                                | 42          | 42       | 31           | 20       | 17      |
| 2½                                | 600         | 600      | 450          | 300      | 250     |
| 65                                | 42          | 42       | 31           | 20       | 17      |
| 3                                 | 600         | 600      | 450          | 300      | 250     |
| 80                                | 42          | 42       | 31           | 20       | 17      |
| 4                                 | 600         | 600      | 450          | 300      | 200     |
| 100                               | 42          | 42       | 31           | 20       | 14      |
| 5                                 | 450         | 450      | 300          | 200      | NR      |
| 125                               | 31          | 31       | 20           | 14       |         |
| 6                                 | 450         | 450      | 300          | 125      | NR      |
| 150                               | 31          | 31       | 20           | 9        |         |
| 8                                 | 450         | 450      | 300          | 100      | NR      |
| 200                               | 31          | 31       | 20           | 7        |         |

Unit: psi / Bar

| Model K-9 on Carbon Steel Pipe |             |     |              |         |        |
|--------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                      | Cut-Grooved |     | Roll-Grooved |         |        |
|                                | XS          | STD | STD          | Sch. 10 | Sch. 7 |
| 1¼                             | 600         | 600 | 500          | 400     | 300    |
| 32                             | 42          | 42  | 35           | 28      | 20     |
| 1½                             | 600         | 600 | 500          | 400     | 300    |
| 40                             | 42          | 42  | 35           | 28      | 20     |
| 2                              | 600         | 600 | 500          | 400     | 300    |
| 50                             | 42          | 42  | 35           | 28      | 20     |
| 2½                             | 600         | 600 | 500          | 400     | 300    |
| 65                             | 42          | 42  | 35           | 28      | 20     |
| 3                              | 600         | 600 | 500          | 400     | 300    |
| 80                             | 42          | 42  | 35           | 28      | 20     |
| 4                              | 600         | 600 | 500          | 400     | 300    |
| 100                            | 42          | 42  | 35           | 28      | 20     |
| 5                              | 450         | 450 | 450          | 350     | 250    |
| 125                            | 31          | 31  | 31           | 24      | 17     |
| 6                              | 450         | 450 | 450          | 350     | 250    |
| 150                            | 31          | 31  | 31           | 24      | 17     |
| 8                              | 450         | 450 | 300          | 250     | 200    |
| 200                            | 31          | 31  | 20           | 17      | 14     |
| 8 (K-9H)                       | 450         | 450 | 300          | 250     | 200    |
| 200                            | 31          | 31  | 20           | 17      | 14     |

Unit: psi / Bar

| Model K-9 on Stainless Steel Pipe |             |          |              |          |         |
|-----------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                         | Cut-Grooved |          | Roll-Grooved |          |         |
|                                   | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| 1¼                                | 600         | 600      | 450          | 300      | 250     |
| 32                                | 42          | 42       | 31           | 20       | 17      |
| 1½                                | 600         | 600      | 450          | 300      | 250     |
| 40                                | 42          | 42       | 31           | 20       | 17      |
| 2                                 | 600         | 600      | 450          | 300      | 250     |
| 50                                | 42          | 42       | 31           | 20       | 17      |
| 2½                                | 600         | 600      | 450          | 300      | 250     |
| 65                                | 42          | 42       | 31           | 20       | 17      |
| 3                                 | 600         | 600      | 450          | 300      | 250     |
| 80                                | 42          | 42       | 31           | 20       | 17      |
| 4                                 | 600         | 600      | 450          | 300      | 200     |
| 100                               | 42          | 42       | 31           | 20       | 14      |
| 5                                 | 450         | 450      | 300          | 200      | NR      |
| 125                               | 31          | 31       | 20           | 14       |         |
| 6                                 | 450         | 450      | 300          | 125      | NR      |
| 150                               | 31          | 31       | 20           | 9        |         |
| 8                                 | 450         | 450      | 300          | 100      | NR      |
| 200                               | 31          | 31       | 20           | 7        |         |
| 8 (K-9H)                          | 450         | 450      | 300          | 100      | NR      |
| 200                               | 31          | 31       | 20           | 7        |         |

Unit: psi / Bar

Unit: psi / Bar

| Model Z07 on Carbon Steel Pipe |             |     |              |         |        |
|--------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                      | Cut-Grooved |     | Roll-Grooved |         |        |
|                                | XS          | STD | STD          | Sch. 10 | Sch. 7 |
| in / mm                        |             |     |              |         |        |
| 1¼                             | 750         | 750 | 750          | 600     | 400    |
| 32                             | 52          | 52  | 52           | 42      | 28     |
| 1½                             | 750         | 750 | 750          | 600     | 400    |
| 40                             | 52          | 52  | 52           | 42      | 28     |
| 2                              | 750         | 750 | 750          | 600     | 400    |
| 50                             | 52          | 52  | 52           | 42      | 28     |
| 2½                             | 750         | 750 | 750          | 600     | 400    |
| 65                             | 52          | 52  | 52           | 42      | 28     |
| 3                              | 750         | 750 | 750          | 600     | 400    |
| 80                             | 52          | 52  | 52           | 42      | 28     |
| 4                              | 750         | 750 | 750          | 600     | 400    |
| 100                            | 52          | 52  | 52           | 42      | 28     |
| 5                              | 750         | 750 | 750          | 500     | 350    |
| 125                            | 52          | 52  | 52           | 35      | 24     |
| 6                              | 700         | 700 | 700          | 400     | 300    |
| 150                            | 48          | 48  | 48           | 28      | 20     |
| 8                              | 600         | 600 | 600          | 350     | 250    |
| 200                            | 42          | 42  | 42           | 24      | 17     |
| 10                             | 500         | 500 | 500          | 300     | 200    |
| 250                            | 35          | 35  | 35           | 20      | 14     |
| 12                             | 400         | 400 | 400          | 250     | 150    |
| 300                            | 28          | 28  | 28           | 17      | 10     |

| Model Z07 on Stainless Steel Pipe |             |          |              |          |         |
|-----------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                         | Cut-Grooved |          | Roll-Grooved |          |         |
|                                   | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| in / mm                           |             |          |              |          |         |
| 1¼                                | 750         | 750      | 750          | 600      | 300     |
| 32                                | 52          | 52       | 52           | 42       | 20      |
| 1½                                | 750         | 750      | 750          | 600      | 300     |
| 40                                | 52          | 52       | 52           | 42       | 20      |
| 2                                 | 750         | 750      | 750          | 600      | 300     |
| 50                                | 52          | 52       | 52           | 42       | 20      |
| 2½                                | 750         | 750      | 750          | 600      | 300     |
| 65                                | 52          | 52       | 52           | 42       | 20      |
| 3                                 | 750         | 750      | 750          | 500      | 300     |
| 80                                | 52          | 52       | 52           | 35       | 20      |
| 4                                 | 750         | 750      | 750          | 500      | 250     |
| 100                               | 52          | 52       | 52           | 35       | 17      |
| 5                                 | 750         | 750      | 650          | 500      | NR      |
| 125                               | 52          | 52       | 45           | 35       |         |
| 6                                 | 700         | 700      | 600          | 300      | NR      |
| 150                               | 48          | 48       | 42           | 20       |         |
| 8                                 | 600         | 600      | 450          | 300      | NR      |
| 200                               | 42          | 42       | 32           | 20       |         |
| 10                                | 500         | 500      | 450          | 150      | NR      |
| 250                               | 35          | 35       | 32           | 10       |         |
| 12                                | 400         | 400      | 400          | 125      | NR      |
| 300                               | 28          | 28       | 28           | 9        |         |

Unit: psi / Bar

Unit: psi / Bar

| Model 7771 on Carbon Steel Pipe |             |     |              |         |        |
|---------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                       | Cut-Grooved |     | Roll-Grooved |         |        |
|                                 | XS          | STD | STD          | Sch. 10 | Sch. 7 |
| in / mm                         |             |     |              |         |        |
| 1½                              | 750         | 750 | 750          | 600     | 400    |
| 40                              | 52          | 52  | 52           | 42      | 28     |
| 2                               | 750         | 750 | 750          | 600     | 400    |
| 50                              | 52          | 52  | 52           | 42      | 28     |
| 2½                              | 750         | 750 | 750          | 600     | 400    |
| 65                              | 52          | 52  | 52           | 42      | 28     |
| 3                               | 750         | 750 | 750          | 600     | 400    |
| 80                              | 52          | 52  | 52           | 42      | 28     |
| 4                               | 750         | 750 | 750          | 600     | 400    |
| 100                             | 52          | 52  | 52           | 42      | 28     |
| 5                               | 750         | 750 | 750          | 500     | 350    |
| 125                             | 52          | 52  | 52           | 35      | 24     |
| 6                               | 700         | 700 | 700          | 400     | 300    |
| 150                             | 48          | 48  | 48           | 28      | 20     |
| 8                               | 600         | 600 | 600          | 350     | 250    |
| 200                             | 42          | 42  | 42           | 24      | 17     |
| 10                              | 500         | 500 | 500          | 300     | 200    |
| 250                             | 35          | 35  | 35           | 20      | 14     |
| 12                              | 400         | 400 | 400          | 250     | 150    |
| 300                             | 28          | 28  | 28           | 17      | 10     |

| Model 7771 on Stainless Steel Pipe |             |          |              |          |         |
|------------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                          | Cut-Grooved |          | Roll-Grooved |          |         |
|                                    | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| in / mm                            |             |          |              |          |         |
| 1½                                 | 750         | 750      | 700          | 500      | 300     |
| 40                                 | 52          | 52       | 48           | 35       | 20      |
| 2                                  | 750         | 750      | 700          | 500      | 300     |
| 50                                 | 52          | 52       | 48           | 35       | 20      |
| 2½                                 | 750         | 750      | 700          | 500      | 300     |
| 65                                 | 52          | 52       | 48           | 35       | 20      |
| 3                                  | 750         | 750      | 700          | 500      | 300     |
| 80                                 | 52          | 52       | 48           | 35       | 20      |
| 4                                  | 750         | 750      | 700          | 400      | 250     |
| 100                                | 52          | 52       | 48           | 28       | 17      |
| 5                                  | 750         | 750      | 600          | 300      | NR      |
| 125                                | 52          | 52       | 42           | 20       |         |
| 6                                  | 700         | 700      | 500          | 200      | NR      |
| 150                                | 48          | 48       | 35           | 14       |         |
| 8                                  | 600         | 600      | 400          | 150      | NR      |
| 200                                | 42          | 42       | 28           | 10       |         |
| 10                                 | 500         | 500      | 300          | 100      | NR      |
| 250                                | 35          | 35       | 20           | 7        |         |
| 12                                 | 400         | 400      | 250          | 100      | NR      |
| 300                                | 28          | 28       | 17           | 7        |         |

Unit: psi / Bar

| Model XH-1000 on Carbon Steel Pipe |             |      |              |         |        |
|------------------------------------|-------------|------|--------------|---------|--------|
| Nom. Size                          | Cut-Grooved |      | Roll-Grooved |         |        |
|                                    | XS          | STD  | STD          | Sch. 10 | Sch. 7 |
| in / mm                            |             |      |              |         |        |
| <b>2</b>                           | 1000        | 1000 | 1000         | 750     | NR     |
| 50                                 | 69          | 69   | 69           | 52      |        |
| <b>2½</b>                          | 1000        | 1000 | 1000         | 600     | NR     |
| 65                                 | 69          | 69   | 69           | 42      |        |
| <b>3</b>                           | 1000        | 1000 | 1000         | 600     | NR     |
| 80                                 | 69          | 69   | 69           | 42      |        |
| <b>4</b>                           | 1000        | 1000 | 1000         | 600     | NR     |
| 100                                | 69          | 69   | 69           | 42      |        |
| <b>6</b>                           | 1000        | 1000 | 1000         | 450     | NR     |
| 150                                | 69          | 69   | 69           | 31      |        |
| <b>8</b>                           | 800         | 800  | 800          | 300     | NR     |
| 200                                | 55          | 55   | 55           | 20      |        |
| <b>10</b>                          | 800         | 800  | 800          | 300     | NR     |
| 250                                | 55          | 55   | 55           | 20      |        |
| <b>12</b>                          | 800         | 800  | 800          | 300     | NR     |
| 300                                | 55          | 55   | 55           | 20      |        |

Unit: psi / Bar

| Model XH-1000 on Stainless Steel Pipe |             |          |              |          |         |
|---------------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                             | Cut-Grooved |          | Roll-Grooved |          |         |
|                                       | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| in / mm                               |             |          |              |          |         |
| <b>2</b>                              | 1000        | 1000     | 750          | 700      | NR      |
| 50                                    | 69          | 69       | 52           | 48       |         |
| <b>2½</b>                             | 1000        | 1000     | 750          | 700      | NR      |
| 65                                    | 69          | 69       | 52           | 48       |         |
| <b>3</b>                              | 1000        | 1000     | 750          | 500      | NR      |
| 80                                    | 69          | 69       | 52           | 35       |         |
| <b>4</b>                              | 1000        | 1000     | 750          | 500      | NR      |
| 100                                   | 69          | 69       | 52           | 35       |         |
| <b>6</b>                              | 1000        | 1000     | 750          | 350      | NR      |
| 150                                   | 69          | 69       | 52           | 24       |         |
| <b>8</b>                              | 800         | 800      | 650          | 350      | NR      |
| 200                                   | 55          | 55       | 45           | 24       |         |
| <b>10</b>                             | 800         | 800      | 600          | 300      | NR      |
| 250                                   | 55          | 55       | 42           | 20       |         |
| <b>12</b>                             | 800         | 800      | 600          | 300      | NR      |
| 300                                   | 55          | 55       | 42           | 20       |         |

Unit: psi / Bar

| Model 7705 on Carbon Steel Pipe |             |     |              |         |        |
|---------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                       | Cut-Grooved |     | Roll-Grooved |         |        |
|                                 | XS          | STD | STD          | Sch. 10 | Sch. 7 |
| in / mm                         |             |     |              |         |        |
| <b>1</b>                        | 600         | 600 | 500          | 400     | 300    |
| 25                              | 42          | 42  | 35           | 28      | 20     |
| <b>1¼</b>                       | 600         | 600 | 500          | 400     | 300    |
| 32                              | 42          | 42  | 35           | 28      | 20     |
| <b>1½</b>                       | 600         | 600 | 500          | 400     | 300    |
| 40                              | 42          | 42  | 35           | 28      | 20     |
| <b>2</b>                        | 600         | 600 | 500          | 400     | 300    |
| 50                              | 42          | 42  | 35           | 28      | 20     |
| <b>2½</b>                       | 600         | 600 | 500          | 400     | 300    |
| 65                              | 42          | 42  | 35           | 28      | 20     |
| <b>3</b>                        | 600         | 600 | 500          | 400     | 300    |
| 80                              | 42          | 42  | 35           | 28      | 20     |
| <b>4</b>                        | 600         | 600 | 500          | 400     | 300    |
| 100                             | 42          | 42  | 35           | 28      | 20     |
| <b>5</b>                        | 450         | 450 | 450          | 350     | 250    |
| 125                             | 31          | 31  | 31           | 24      | 17     |
| <b>6</b>                        | 450         | 450 | 450          | 350     | 250    |
| 150                             | 31          | 31  | 31           | 24      | 17     |
| <b>8</b>                        | 450         | 450 | 300          | 250     | 200    |
| 200                             | 31          | 31  | 20           | 17      | 14     |
| <b>10</b>                       | 350         | 350 | 300          | 200     | 175    |
| 250                             | 24          | 24  | 20           | 14      | 12     |
| <b>12</b>                       | 350         | 350 | 300          | 200     | 175    |
| 300                             | 24          | 24  | 20           | 14      | 12     |

Unit: psi / Bar

| Model 7705 on Stainless Steel Pipe |             |          |              |          |         |
|------------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                          | Cut-Grooved |          | Roll-Grooved |          |         |
|                                    | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| in / mm                            |             |          |              |          |         |
| <b>1</b>                           | 600         | 600      | 750          | 500      | 250     |
| 25                                 | 42          | 42       | 52           | 35       | 17      |
| <b>1¼</b>                          | 600         | 600      | 750          | 500      | 250     |
| 32                                 | 42          | 42       | 52           | 35       | 17      |
| <b>1½</b>                          | 600         | 600      | 650          | 500      | 250     |
| 40                                 | 42          | 42       | 45           | 35       | 17      |
| <b>2</b>                           | 600         | 600      | 500          | 500      | 250     |
| 50                                 | 42          | 42       | 35           | 35       | 17      |
| <b>2½</b>                          | 600         | 600      | 500          | 500      | 250     |
| 65                                 | 42          | 42       | 35           | 35       | 17      |
| <b>3</b>                           | 600         | 600      | 500          | 400      | 250     |
| 80                                 | 42          | 42       | 35           | 28       | 17      |
| <b>4</b>                           | 600         | 600      | 500          | 400      | 200     |
| 100                                | 42          | 42       | 35           | 28       | 14      |
| <b>5</b>                           | 450         | 450      | 450          | 350      | NR      |
| 125                                | 31          | 31       | 31           | 24       |         |
| <b>6</b>                           | 450         | 450      | 300          | 300      | NR      |
| 150                                | 31          | 31       | 20           | 20       |         |
| <b>8</b>                           | 450         | 450      | 300          | 300      | NR      |
| 200                                | 31          | 31       | 20           | 20       |         |
| <b>10</b>                          | 350         | 350      | 200          | 75       | NR      |
| 250                                | 24          | 24       | 14           | 5        |         |
| <b>12</b>                          | 350         | 350      | 200          | 50       | NR      |
| 300                                | 24          | 24       | 14           | 3        |         |

Unit: psi / Bar

| Model 7707 on Carbon Steel Pipe |             |      |              |          |        |
|---------------------------------|-------------|------|--------------|----------|--------|
| Nom. Size                       | Cut-Grooved |      | Roll-Grooved |          |        |
|                                 | XS          | STD  | STD          | Sch. 10  | Sch. 7 |
| in / mm                         |             |      |              |          |        |
| ¾                               | 1000        | 1000 | 1000*/750    | 750*/600 | 500    |
| 20                              | 69          | 69   | 69*/52       | 52*/42   | 35     |
| <b>1</b>                        | 1000        | 1000 | 1000*/750    | 750*/600 | 500    |
| 25                              | 69          | 69   | 69*/52       | 52*/42   | 35     |
| <b>1¼</b>                       | 1000        | 1000 | 1000*/750    | 750*/600 | 500    |
| 32                              | 69          | 69   | 69*/52       | 52*/42   | 35     |
| <b>1½</b>                       | 1000        | 1000 | 1000*/750    | 750*/600 | 500    |
| 40                              | 69          | 69   | 69*/52       | 52*/42   | 35     |
| <b>2</b>                        | 1000        | 1000 | 1000*/750    | 750*/600 | 500    |
| 50                              | 69          | 69   | 69*/52       | 52*/42   | 35     |
| <b>2½</b>                       | 1000        | 1000 | 1000*/750    | 600      | 500    |
| 65                              | 69          | 69   | 69*/52       | 42       | 35     |
| <b>3</b>                        | 1000        | 1000 | 1000*/750    | 600      | 500    |
| 80                              | 69          | 69   | 69*/52       | 42       | 35     |
| <b>4</b>                        | 1000        | 1000 | 1000*/750    | 600      | 400    |
| 100                             | 69          | 69   | 69*/52       | 42       | 28     |
| <b>5</b>                        | 1000        | 1000 | 1000*/750    | 500      | 350    |
| 125                             | 69          | 69   | 69*/52       | 35       | 24     |
| <b>6</b>                        | 1000        | 1000 | 1000*/700    | 450      | 300    |
| 150                             | 69          | 69   | 69*/48       | 31       | 20     |
| <b>8</b>                        | 800         | 800  | 800*/600     | 350      | 250    |
| 200                             | 55          | 55   | 55*/42       | 24       | 17     |
| <b>10</b>                       | 800         | 800  | 800*/550     | 300      | 200    |
| 250                             | 55          | 55   | 55*/38       | 20       | 14     |
| <b>12</b>                       | 800         | 800  | 800*/500     | 300      | 200    |
| 300                             | 55          | 55   | 55*/35       | 20       | 14     |

Note: \* Maximum line pressure, including surge, to which a joint should be subjected.

Unit: psi / Bar

| Model 7707 on Stainless Steel Pipe |             |          |              |          |         |
|------------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                          | Cut-Grooved |          | Roll-Grooved |          |         |
|                                    | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| in / mm                            |             |          |              |          |         |
| ¾                                  | 750         | 750      | 750          | 500      | 325     |
| 20                                 | 52          | 52       | 52           | 35       | 22      |
| <b>1</b>                           | 750         | 750      | 750          | 500      | 325     |
| 25                                 | 52          | 52       | 52           | 35       | 22      |
| <b>1¼</b>                          | 750         | 750      | 750          | 500      | 325     |
| 32                                 | 52          | 52       | 52           | 35       | 22      |
| <b>1½</b>                          | 750         | 750      | 750          | 500      | 325     |
| 40                                 | 52          | 52       | 52           | 35       | 22      |
| <b>2</b>                           | 750         | 750      | 750          | 500      | 325     |
| 50                                 | 52          | 52       | 52           | 35       | 22      |
| <b>2½</b>                          | 750         | 750      | 750          | 500      | 325     |
| 65                                 | 52          | 52       | 52           | 35       | 22      |
| <b>3</b>                           | 750         | 750      | 750          | 500      | 325     |
| 80                                 | 52          | 52       | 52           | 35       | 22      |
| <b>4</b>                           | 750         | 750      | 750          | 500      | 250     |
| 100                                | 52          | 52       | 52           | 35       | 17      |
| <b>5</b>                           | 750         | 750      | 650          | 500      | NR      |
| 125                                | 52          | 52       | 45           | 35       |         |
| <b>6</b>                           | 750         | 750      | 500          | 200      | NR      |
| 150                                | 52          | 52       | 35           | 14       |         |
| <b>8</b>                           | 600         | 600      | 450          | 300      | NR      |
| 200                                | 42          | 42       | 31           | 20       |         |
| <b>10</b>                          | 600         | 600      | 400          | 125      | NR      |
| 250                                | 42          | 42       | 28           | 9        |         |
| <b>12</b>                          | 600         | 600      | 400          | 125      | NR      |
| 300                                | 42          | 42       | 28           | 9        |         |

Unit: psi / Bar

| Model 7706 on Carbon Steel Pipe |             |     |              |         |        |
|---------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                       | Cut-Grooved |     | Roll-Grooved |         |        |
|                                 | XS          | STD | STD          | Sch. 10 | Sch. 7 |
| in / mm                         |             |     |              |         |        |
| <b>1½ x 1¼</b>                  | 500         | 500 | 500          | 350     | 300    |
| 40 x 32                         | 35          | 35  | 35           | 24      | 20     |
| <b>2 x 1½</b>                   | 500         | 500 | 500          | 350     | 300    |
| 50 x 40                         | 35          | 35  | 35           | 24      | 20     |
| <b>2½ x 2</b>                   | 500         | 500 | 500          | 350     | 300    |
| 65 x 50                         | 35          | 35  | 35           | 24      | 20     |
| <b>3 x 2</b>                    | 500         | 500 | 500          | 350     | 300    |
| 80 x 50                         | 35          | 35  | 35           | 24      | 20     |
| <b>3 x 2½</b>                   | 500         | 500 | 500          | 350     | 300    |
| 80 x 65                         | 35          | 35  | 35           | 24      | 20     |
| <b>4 x 2</b>                    | 500         | 500 | 500          | 350     | 300    |
| 100 x 50                        | 35          | 35  | 35           | 24      | 20     |
| <b>4 x 2 ½</b>                  | 500         | 500 | 500          | 350     | 300    |
| 100 x 65                        | 35          | 35  | 35           | 24      | 20     |
| <b>4 x 3</b>                    | 500         | 500 | 500          | 300     | 250    |
| 100 x 80                        | 35          | 35  | 35           | 20      | 17     |
| <b>5 x 4</b>                    | 400         | 400 | 400          | 300     | 250    |
| 125 x 100                       | 28          | 28  | 28           | 20      | 17     |
| <b>6 x 3</b>                    | 400         | 400 | 400          | 300     | 200    |
| 150 x 80                        | 28          | 28  | 28           | 20      | 14     |
| <b>6 x 4</b>                    | 400         | 400 | 400          | 300     | 175    |
| 150 x 100                       | 28          | 28  | 28           | 20      | 12     |
| <b>8 x 6</b>                    | 400         | 400 | 400          | 300     | 175    |
| 200 x 150                       | 28          | 28  | 28           | 20      | 12     |

Unit: psi / Bar

| Model 7706 on Stainless Steel Pipe |             |          |              |          |         |
|------------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                          | Cut-Grooved |          | Roll-Grooved |          |         |
|                                    | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| in / mm                            |             |          |              |          |         |
| <b>1½ x 1¼</b>                     | 500         | 500      | 350          | 300      | 250     |
| 40 x 32                            | 35          | 35       | 24           | 20       | 17      |
| <b>2 x 1½</b>                      | 500         | 500      | 350          | 300      | 250     |
| 50 x 40                            | 35          | 35       | 24           | 20       | 17      |
| <b>2½ x 2</b>                      | 500         | 500      | 350          | 300      | 250     |
| 65 x 50                            | 35          | 35       | 24           | 20       | 17      |
| <b>3 x 2</b>                       | 500         | 500      | 350          | 300      | 250     |
| 80 x 50                            | 35          | 35       | 24           | 20       | 17      |
| <b>3 x 2½</b>                      | 500         | 500      | 350          | 300      | 250     |
| 80 x 65                            | 35          | 35       | 24           | 20       | 17      |
| <b>4 x 2</b>                       | 500         | 500      | 350          | 300      | 250     |
| 100 x 50                           | 35          | 35       | 24           | 20       | 17      |
| <b>4 x 2 ½</b>                     | 500         | 500      | 350          | 300      | 200     |
| 100 x 65                           | 35          | 35       | 24           | 20       | 14      |
| <b>4 x 3</b>                       | 500         | 500      | 300          | 250      | 200     |
| 100 x 80                           | 35          | 35       | 20           | 17       | 14      |
| <b>5 x 4</b>                       | 400         | 400      | 300          | 250      | NR      |
| 125 x 100                          | 28          | 28       | 20           | 17       |         |
| <b>6 x 3</b>                       | 400         | 400      | 300          | 200      | NR      |
| 150 x 80                           | 28          | 28       | 20           | 14       |         |
| <b>6 x 4</b>                       | 400         | 400      | 300          | 175      | NR      |
| 150 x 100                          | 28          | 28       | 20           | 12       |         |
| <b>8 x 6</b>                       | 400         | 400      | 300          | 175      | NR      |
| 200 x 150                          | 28          | 28       | 20           | 12       |         |

Unit: psi / Bar

| Model G28 on Carbon Steel Pipe |             |     |              |         |        |
|--------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                      | Cut-Grooved |     | Roll-Grooved |         |        |
|                                | XS          | STD | STD          | Sch. 10 | Sch. 7 |
| 1½                             | 300         | 300 | 300          | 300     | NR     |
| 40                             | 20          | 20  | 20           | 20      |        |
| 2                              | 300         | 300 | 300          | 300     | NR     |
| 50                             | 20          | 20  | 20           | 20      |        |
| 2½                             | 300         | 300 | 300          | 300     | NR     |
| 65                             | 20          | 20  | 20           | 20      |        |
| 3                              | 300         | 300 | 300          | 300     | NR     |
| 80                             | 20          | 20  | 20           | 20      |        |
| 4                              | 300         | 300 | 300          | 300     | NR     |
| 100                            | 20          | 20  | 20           | 20      |        |
| 5                              | 300         | 300 | 300          | 300     | NR     |
| 125                            | 20          | 20  | 20           | 20      |        |
| 6                              | 300         | 300 | 300          | 300     | NR     |
| 150                            | 20          | 20  | 20           | 20      |        |
| 8                              | 300         | 300 | 300          | 250     | NR     |
| 200                            | 20          | 20  | 20           | 17      |        |
| 10                             | 300         | 300 | 300          | 250     | NR     |
| 250                            | 20          | 20  | 20           | 17      |        |

Unit: psi / Bar

| Model G28 on Stainless Steel Pipe |             |          |              |          |         |
|-----------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                         | Cut-Grooved |          | Roll-Grooved |          |         |
|                                   | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| 1½                                | 300         | 300      | 300          | 300      | NR      |
| 40                                | 20          | 20       | 20           | 20       |         |
| 2                                 | 300         | 300      | 300          | 300      | NR      |
| 50                                | 20          | 20       | 20           | 20       |         |
| 2½                                | 300         | 300      | 300          | 300      | NR      |
| 65                                | 20          | 20       | 20           | 20       |         |
| 3                                 | 300         | 300      | 300          | 300      | NR      |
| 80                                | 20          | 20       | 20           | 20       |         |
| 4                                 | 300         | 300      | 300          | 175      | NR      |
| 100                               | 20          | 20       | 20           | 12       |         |
| 5                                 | 300         | 300      | 250          | 150      | NR      |
| 125                               | 20          | 20       | 17           | 10       |         |
| 6                                 | 300         | 300      | 250          | 150      | NR      |
| 150                               | 20          | 20       | 17           | 10       |         |
| 8                                 | 300         | 300      | 200          | NR       | NR      |
| 200                               | 20          | 20       | 14           |          |         |
| 10                                | 300         | 300      | 200          | NR       | NR      |
| 250                               | 20          | 20       | 14           |          |         |

Unit: psi / Bar

| Model C-7 on Carbon Steel Pipe |             |     |              |         |        |
|--------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                      | Cut-Grooved |     | Roll-Grooved |         |        |
|                                | XS          | STD | STD          | Sch. 10 | Sch. 7 |
| 1½ x *                         | 500         | 500 | 500          | 350     | 300    |
| 40 x *                         | 35          | 35  | 35           | 24      | 20     |
| 2 x *                          | 500         | 500 | 500          | 350     | 300    |
| 50 x *                         | 35          | 35  | 35           | 24      | 20     |
| 2½ x *                         | 500         | 500 | 500          | 350     | 300    |
| 65 x *                         | 35          | 35  | 35           | 24      | 20     |
| 3 x *                          | 500         | 500 | 500          | 350     | 300    |
| 80 x *                         | 35          | 35  | 35           | 24      | 20     |
| 4 x *                          | 500         | 500 | 500          | 350     | 300    |
| 100 x *                        | 35          | 35  | 35           | 24      | 20     |
| 6 x *                          | 400         | 400 | 400          | 350     | 300    |
| 150 x *                        | 28          | 28  | 28           | 24      | 20     |

\* = all branch sizes, threaded and grooved

Unit: psi / Bar

| Model C-7 on Stainless Steel Pipe |             |          |              |          |         |
|-----------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                         | Cut-Grooved |          | Roll-Grooved |          |         |
|                                   | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| 1½ x *                            | 500         | 500      | 350          | 300      | 250     |
| 40 x *                            | 35          | 35       | 24           | 20       | 17      |
| 2 x *                             | 500         | 500      | 350          | 300      | 250     |
| 50 x *                            | 35          | 35       | 24           | 20       | 17      |
| 2½ x *                            | 500         | 500      | 350          | 300      | 250     |
| 65 x *                            | 35          | 35       | 24           | 20       | 17      |
| 3 x *                             | 500         | 500      | 350          | 300      | 250     |
| 80 x *                            | 35          | 35       | 24           | 20       | 17      |
| 4 x *                             | 500         | 500      | 350          | 300      | 250     |
| 100 x *                           | 35          | 35       | 24           | 20       | 17      |
| 6 x *                             | 400         | 400      | 300          | 300      | 250     |
| 150 x *                           | 28          | 28       | 20           | 20       | 17      |

\* = all branch sizes, threaded and grooved

Unit: psi / Bar

Unit: psi / Bar

| Model 7041 on Carbon Steel Pipe |             |     |              |         |        |
|---------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                       | Cut-Grooved |     | Roll-Grooved |         |        |
|                                 | XS          | STD | STD          | Sch. 10 | Sch. 5 |
| in / mm                         |             |     |              |         |        |
| <b>2</b>                        | 300         | 300 | 300          | 250     | 250    |
| 50                              | 20          | 20  | 20           | 17      | 17     |
| <b>2½</b>                       | 300         | 300 | 300          | 250     | 250    |
| 65                              | 20          | 20  | 20           | 17      | 17     |
| <b>3</b>                        | 300         | 300 | 300          | 250     | 250    |
| 80                              | 20          | 20  | 20           | 17      | 17     |
| <b>4</b>                        | 300         | 300 | 300          | 250     | 250    |
| 100                             | 20          | 20  | 20           | 17      | 17     |
| <b>5</b>                        | 300         | 300 | 300          | 250     | 200    |
| 125                             | 20          | 20  | 20           | 17      | 14     |
| <b>6</b>                        | 300         | 300 | 300          | 250     | 200    |
| 150                             | 20          | 20  | 20           | 17      | 14     |
| <b>8</b>                        | 300         | 300 | 300          | 200     | NR     |
| 200                             | 20          | 20  | 20           | 14      |        |
| <b>10</b>                       | 300         | 300 | 300          | 200     | NR     |
| 250                             | 20          | 20  | 20           | 14      |        |
| <b>12</b>                       | 300         | 300 | 300          | 200     | NR     |
| 300                             | 20          | 20  | 20           | 14      |        |
| <b>14</b>                       | 300         | 300 | 300          | 200     | NR     |
| 350                             | 20          | 20  | 20           | 14      |        |
| <b>16</b>                       | 300         | 300 | 300          | 175     | NR     |
| 400                             | 20          | 20  | 20           | 12      |        |
| <b>18</b>                       | 300         | 300 | 300          | 175     | NR     |
| 450                             | 20          | 20  | 20           | 12      |        |
| <b>20</b>                       | 300         | 300 | 300          | 150     | NR     |
| 500                             | 20          | 20  | 20           | 10      |        |
| <b>24</b>                       | 300         | 300 | 300          | 150     | NR     |
| 600                             | 20          | 20  | 20           | 10      |        |

| Model 7041 on Stainless Steel Pipe |             |          |              |          |         |
|------------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                          | Cut-Grooved |          | Roll-Grooved |          |         |
|                                    | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| in / mm                            |             |          |              |          |         |
| <b>2</b>                           | 300         | 300      | 275          | 275      | 250     |
| 50                                 | 20          | 20       | 19           | 19       | 17      |
| <b>2½</b>                          | 300         | 300      | 275          | 275      | 250     |
| 65                                 | 20          | 20       | 19           | 19       | 17      |
| <b>3</b>                           | 300         | 300      | 275          | 275      | 250     |
| 80                                 | 20          | 20       | 19           | 19       | 17      |
| <b>4</b>                           | 300         | 300      | 275          | 275      | 250     |
| 100                                | 20          | 20       | 19           | 19       | 17      |
| <b>5</b>                           | 300         | 300      | 275          | 200      | 200     |
| 125                                | 20          | 20       | 19           | 14       | 14      |
| <b>6</b>                           | 300         | 300      | 250          | 200      | 200     |
| 150                                | 20          | 20       | 17           | 14       | 14      |
| <b>8</b>                           | 300         | 300      | 200          | 75       | NR      |
| 200                                | 20          | 20       | 14           | 5        |         |
| <b>10</b>                          | 300         | 300      | 200          | 75       | NR      |
| 250                                | 20          | 20       | 14           | 5        |         |
| <b>12</b>                          | 300         | 300      | 200          | 50       | NR      |
| 300                                | 20          | 20       | 14           | 3        |         |
| <b>14</b>                          | 250         | 250      | 125          | NR       | NR      |
| 350                                | 17          | 17       | 9            |          |         |
| <b>16</b>                          | 250         | 250      | 125          | NR       | NR      |
| 400                                | 17          | 17       | 9            |          |         |
| <b>18</b>                          | 250         | 250      | 125          | NR       | NR      |
| 450                                | 17          | 17       | 9            |          |         |
| <b>20</b>                          | 250         | 250      | 100          | NR       | NR      |
| 500                                | 17          | 17       | 7            |          |         |
| <b>24</b>                          | 250         | 250      | 100          | NR       | NR      |
| 600                                | 17          | 17       | 7            |          |         |

Hydrostatic shell test: 450 psi (30 Bar) per ANSI B16.5

Unit: psi / Bar

Unit: psi / Bar

| Model 7043 on Carbon Steel Pipe |             |     |              |         |        |
|---------------------------------|-------------|-----|--------------|---------|--------|
| Nom. Size                       | Cut-Grooved |     | Roll-Grooved |         |        |
|                                 | XS          | STD | STD          | Sch. 10 | Sch. 7 |
| in / mm                         |             |     |              |         |        |
| <b>2</b>                        | 750         | 750 | 750          | 500     | NR     |
| 50                              | 52          | 52  | 52           | 35      |        |
| <b>2½</b>                       | 750         | 750 | 750          | 500     | NR     |
| 65                              | 52          | 52  | 52           | 35      |        |
| <b>3</b>                        | 750         | 750 | 750          | 500     | NR     |
| 80                              | 52          | 52  | 52           | 35      |        |
| <b>4</b>                        | 750         | 750 | 750          | 500     | NR     |
| 100                             | 52          | 52  | 52           | 35      |        |
| <b>5</b>                        | 750         | 750 | 750          | 450     | NR     |
| 125                             | 52          | 52  | 52           | 31      |        |
| <b>6</b>                        | 750         | 750 | 750          | 450     | NR     |
| 150                             | 52          | 52  | 52           | 31      |        |
| <b>8</b>                        | 750         | 750 | 750          | 300     | NR     |
| 200                             | 52          | 52  | 52           | 20      |        |
| <b>10</b>                       | 750         | 750 | 750          | 300     | NR     |
| 250                             | 52          | 52  | 52           | 20      |        |
| <b>12</b>                       | 750         | 750 | 750          | 250     | NR     |
| 300                             | 52          | 52  | 52           | 17      |        |

| Model 7043 on Stainless Steel Pipe |             |          |              |          |         |
|------------------------------------|-------------|----------|--------------|----------|---------|
| Nom. Size                          | Cut-Grooved |          | Roll-Grooved |          |         |
|                                    | Sch. 80S    | Sch. 40S | Sch. 40S     | Sch. 10S | Sch. 5S |
| in / mm                            |             |          |              |          |         |
| <b>2</b>                           | 400         | 400      | 400          | NR       | NR      |
| 50                                 | 28          | 28       | 28           |          |         |
| <b>2½</b>                          | 400         | 400      | 400          | NR       | NR      |
| 65                                 | 28          | 28       | 28           |          |         |
| <b>3</b>                           | 400         | 400      | 400          | NR       | NR      |
| 80                                 | 28          | 28       | 28           |          |         |
| <b>4</b>                           | 300         | 300      | 300          | NR       | NR      |
| 100                                | 20          | 20       | 20           |          |         |
| <b>5</b>                           | 300         | 300      | 250          | NR       | NR      |
| 125                                | 20          | 20       | 17           |          |         |
| <b>6</b>                           | 300         | 300      | 200          | NR       | NR      |
| 150                                | 20          | 20       | 14           |          |         |
| <b>8</b>                           | 250         | 250      | 150          | NR       | NR      |
| 200                                | 17          | 17       | 10           |          |         |
| <b>10</b>                          | 250         | 250      | 150          | NR       | NR      |
| 250                                | 17          | 17       | 10           |          |         |
| <b>12</b>                          | 250         | 250      | 150          | NR       | NR      |
| 300                                | 17          | 17       | 10           |          |         |

Hydrostatic shell test: 1125 psi (77 Bar) per ANSI B16.5

Unit: psi / Bar

| Model 7707N on Carbon Steel Pipe |                |                 |                |
|----------------------------------|----------------|-----------------|----------------|
| Nom. Size                        | Cut-Grooved    | Roll-Grooved    |                |
| in / mm                          | XS<br>(0.500") | STD<br>(0.375") | LW<br>(0.312") |
| <b>14</b>                        | 300            | 300             | 250            |
| 350                              | 20             | 20              | 17             |
| <b>16</b>                        | 300            | 300             | 250            |
| 400                              | 20             | 20              | 17             |
| <b>18</b>                        | 300            | 300             | 250            |
| 450                              | 20             | 20              | 17             |
| <b>20</b>                        | 300            | 300             | 250            |
| 500                              | 20             | 20              | 17             |
| <b>22</b>                        | 300            | 300             | 250            |
| 550                              | 20             | 20              | 17             |
| <b>24</b>                        | 300            | 300             | 250            |
| 600                              | 20             | 20              | 17             |

Unit: psi / Bar

| Model Z07N on Carbon Steel Pipe |                |                 |                |
|---------------------------------|----------------|-----------------|----------------|
| Nom. Size                       | Cut-Grooved    | Roll-Grooved    |                |
| in / mm                         | XS<br>(0.500") | STD<br>(0.375") | LW<br>(0.312") |
| <b>14</b>                       | NR             | 250             | 200            |
| 350                             |                | 17              | 14             |
| <b>16</b>                       | NR             | 250             | 200            |
| 400                             |                | 17              | 14             |
| <b>18</b>                       | NR             | 250             | 200            |
| 450                             |                | 17              | 14             |
| <b>20</b>                       | NR             | 250             | 200            |
| 500                             |                | 17              | 14             |
| <b>24</b>                       | NR             | 250             | 200            |
| 600                             |                | 17              | 14             |

Unit: psi / Bar

| Model 7707L on Carbon Steel Pipe |                |                 |                |
|----------------------------------|----------------|-----------------|----------------|
| Nom. Size                        | Cut-Grooved    | Roll-Grooved    |                |
| in / mm                          | XS<br>(0.500") | STD<br>(0.375") | LW<br>(0.312") |
| <b>28</b>                        | 250            | 175             | 125            |
| 700                              | 17             | 12              | 9              |
| <b>30</b>                        | 250            | 175             | 125            |
| 750                              | 17             | 12              | 9              |
| <b>32</b>                        | 250            | 175             | 125            |
| 800                              | 17             | 12              | 9              |
| <b>34</b>                        | 250            | 175             | 125            |
| 850                              | 17             | 12              | 9              |
| <b>36</b>                        | 250            | 175             | 125            |
| 900                              | 17             | 12              | 9              |
| <b>40</b>                        | 250            | 175             | 125            |
| 1000                             | 17             | 12              | 9              |
| <b>42</b>                        | 250            | 175             | 125            |
| 1050                             | 17             | 12              | 9              |

250  
17  
250  
17  
250  
17  
250  
17  
225  
16

Stated pressure ratings have been developed with a safety factor. Please see Shurjoint's 2017 online installation instructions for most recently updated instructions. Proper installation is important to proper performance.