

## SAE J514 Working Pressure Ratings Capable of 4 to 1 Minimum Burst

**Note:** In the case of a fitting that is a jump size, it is recommended that the lower pressure of the two ends must be recognized as the working pressure rating for that fitting. This is also the case if the fitting has one or more different style ends. For example, straight threads to pipe threads. In this case it is also recommended that the lower pressure rating of the two different style ends must be recognized as the working pressure rating for that fitting.

| Nom SAE Dash Size | Nom Tube O.D. M.M. | Nom Tube O.D. Inch | Straight Thread Size | Nom Pipe Size | Rigid SAE St. Thread Unions & Bulkhead MPa | Rigid SAE St. Thread Unions & Bulkhead PSI | Adjustable SAE Std. Thread & Female Swivel MPa | Adjustable SAE Std. Thread & Female Swivel PSI | Fittings with Pipe Thread MPa | Fittings with Pipe Thread PSI | NPSM Std. Pipe Thread Maximum Operating Pressure MPa | NPSM Std. Pipe Thread Maximum Operating Pressure PSI |
|-------------------|--------------------|--------------------|----------------------|---------------|--|--|--|--|-------------------------------|-------------------------------|--|--|
| 2                 | 3.18               | 0.125              | 5/16-24              | 1/8           | 34.5                                       | 5,000                                      | 34.5   | 5,000  | 34.5                          | 5,000                         | 34.5   | 5,000  |
| 3                 | 4.76               | 0.188              | 3/8-24               | 1/8           | 34.5                                       | 5,000                                      | 34.5   | 5,000  | 34.5                          | 5,000                         | -  | -  |
| 4                 | 6.35               | 0.250              | 7/16-20              | 1/8           | 34.5                                       | 5,000                                      | 31.0   | 4,500  | 34.5                          | 5,000                         | 34.5   | 5,000  |
| 5                 | 7.94               | 0.313              | 1/2-20               | 1/8           | 34.5                                       | 5,000                                      | 27.5   | 4,000  | 34.5                          | 5,000                         | -  | -  |
| 6                 | 9.52               | 0.375              | 9/16-18              | 1/4           | 34.5                                       | 5,000                                      | 27.5   | 4,000  | 27.5                          | 4,000                         | 27.5   | 4,000  |
| 8                 | 12.70              | 0.500              | 3/4-16               | 3/8           | 31.0                                       | 4,500                                      | 27.5   | 4,000  | 21.0                          | 3,000                         | 24.1   | 3,500  |
| 10                | 15.88              | 0.625              | 7/8-14               | 1/2           | 24.0                                       | 3,500                                      | 21.0   | 3,000  | 21.0                          | 3,000                         | -  | -  |
| 12                | 19.05              | 0.750              | 1 1/16-12            | 3/4           | 24.0                                       | 3,500                                      | 21.0   | 3,000  | 17.0                          | 2,500                         | 15.5   | 2,250  |
| 14                | 22.22              | 0.875              | 1 3/16-12            | 3/4           | 21.0                                       | 3,000                                      | 17.0   | 2,500  | 17.0                          | 2,500                         | -  | -  |
| 16                | 25.40              | 1.000              | 1 5/16-12            | 1             | 21.0                                       | 3,000                                      | 17.0   | 2,500  | 14.0                          | 2,000                         | 13.8   | 2,000  |
| 20                | 31.75              | 1.250              | 1 5/8-12             | 1 1/4         | 17.0                                       | 2,500                                      | 14.0   | 2,000  | 8.0                           | 1,150                         | 11.2   | 1,625  |
| 24                | 38.10              | 1.500              | 1 7/8-12             | 1 1/2         | 14.0                                       | 2,000                                      | 10.5   | 1,500  | 7.0                           | 1,000                         | 8.6  | 1,250  |
| 32                | 50.30              | 2.000              | 2 1/2-12             | 2             | 10.5                                       | 1,500                                      | 8.0  | 1,125  | 7.0                           | 1,000                         | 7.8  | 1,125  |

## SAE J1453 Working, Proof & Minimum Face Seal Fittings

**NOTE:** In the case of a fitting that is a jump size, it is recommended that the lower pressure of the two ends must be recognized as the working pressure rating for that fitting. This is also the case if the fitting has one or more different style ends. For example, Face Seal to pipe threads. In this case it is also recommended that the lower pressure rating of the two different style ends must be recognized as the working pressure rating for that fitting.

| Non SAE Dash Size | Straight Fittings Working MPa | Straight Fittings Working PSI | Straight Fittings Proof MPa | Straight Fittings Proof PSI | Straight Fittings Min. Burst MPa | Straight Fittings Min. Burst PSI | Adjustable Fittings Working MPa | Adjustable Fittings Working PSI | Adjustable Fittings Proof MPa | Adjustable Fittings Proof PSI | Adjustable Fittings Min. Burst MPa | Adjustable Fittings in. Burst PSI |
|-------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|-------------------------------|-------------------------------|------------------------------------|-----------------------------------|
| 4                 | 41.3                          | 6,000                         | 82.5                        | 12,000                      | 165                              | 24,000                           | 41.3                            | 6,000                           | 82.5                          | 12,000                        | 165.0                              | 24,000                            |
| 6                 | 41.3                          | 6,000                         | 82.5                        | 12,000                      | 165                              | 24,000                           | 41.3                            | 6,000                           | 82.5                          | 12,000                        | 165.0                              | 24,000                            |
| 8                 | 41.3                          | 6,000                         | 82.5                        | 12,000                      | 165                              | 24,000                           | 41.3                            | 6,000                           | 82.5                          | 12,000                        | 165.0                              | 24,000                            |
| 10                | 41.3                          | 6,000                         | 82.5                        | 12,000                      | 165                              | 24,000                           | 41.3                            | 6,000                           | 82.5                          | 12,000                        | 165.0                              | 24,000                            |
| 12                | 41.3                          | 6,000                         | 82.5                        | 12,000                      | 165                              | 24,000                           | 41.3                            | 6,000                           | 82.5                          | 12,000                        | 165.0                              | 24,000                            |
| 16                | 41.3                          | 6,000                         | 82.5                        | 12,000                      | 165                              | 24,000                           | 34.5                            | 5,000                           | 69.9                          | 10,000                        | 138.0                              | 20,000                            |
| 20                | 27.5                          | 4,000                         | 55.0                        | 8,000                       | 110                              | 16,000                           | 27.5                            | 4,000                           | 55.0                          | 8,000                         | 110.0                              | 16,000                            |
| 24                | 27.5                          | 4,000                         | 55.0                        | 8,000                       | 110                              | 16,000                           | 20.7                            | 3,000                           | 41.3                          | 6,000                         | 82.5                               | 12,000                            |

## SAE J518 Maximum Working Pressure Ratings for Code 61 Flange Fittings

| Nominal Flange Size Inch | Maximum Recommended Working Pressure MPa | Maximum Recommended Working Pressure PSI |
|--------------------------|--|--|
| 1/2                      | 34.5                                     | 5,000                                    |
| 3/4                      | 34.5                                     | 5,000                                    |
| 1                        | 34.5                                     | 5,000                                    |
| 1 1/4                    | 27.6                                     | 4,000                                    |
| 1 1/2                    | 20.7                                     | 3,000                                    |
| 2                        | 20.7                                     | 3,000                                    |

## SAE J518 Maximum Working Pressure Ratings for Code 62 Flange Fittings

| Nominal Flange Size Inch | Maximum Recommended Working Pressure MPa | Maximum Recommended Working Pressure PSI |
|--------------------------|--|--|
| 1/2                      | 41.4                                     | 6,000                                    |
| 3/4                      | 41.4                                     | 6,000                                    |
| 1                        | 41.4                                     | 6,000                                    |
| 1 1/4                    | 41.4                                     | 6,000                                    |
| 1 1/2                    | 41.4                                     | 6,000                                    |
| 2                        | 41.4                                     | 6,000                                    |