



# Kuriyama-Couplings<sup>TM</sup>

## Couplings & Accessories



Kuriyama of America, Inc.



**EDITION 1013**



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| BRGHT     | 51   | GMS      | 39   | POFFSA      | 53   | SPN     | 34   |           |      |
| BRGHT-FEM | 51   | GRA      | 14   | POFMD       | 52   | SRG     | 68   |           |      |
| BRNPS     | 51   | GRB      | 14   | POFMIV      | 53   | SS-A    | 8    |           |      |
| BRNPS-FEM | 51   | GRC      | 14   | POFMJS      | 53   | SS-B    | 8    |           |      |
| BUNA      | 66   | GRD      | 14   | POFMMP      | 52   | SS-C    | 8    |           |      |
| BW-ALB    | 18   | GRDC     | 15   | POFMPE      | 52   | SS-D    | 8    |           |      |
| BW-ALF    | 18   | GRDP     | 15   | POFMPS      | 52   | SS-DC   | 9    |           |      |
| BW-SSB    | 18   | GRE      | 15   | POFMSA      | 53   | SS-DP   | 9    |           |      |

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## Aluminum Quick-Acting Couplings



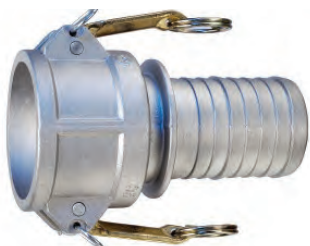
**Aluminum Part A Male Adapter x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-A050     | 1/2 x 1/2  | 0.10               | 100             |
| AL-A075     | 3/4        | 0.13               | 50              |
| AL-A100     | 1          | 0.12               | 70              |
| AL-A125     | 1 1/4      | 0.20               | 40              |
| AL-A150     | 1 1/2      | 0.28               | 30              |
| AL-A200     | 2          | 0.38               | 40              |
| AL-A250     | 2 1/2      | 0.58               | 50              |
| AL-A300     | 3          | 0.70               | 35              |
| AL-A400     | 4          | 1.58               | 20              |
| AL-A500     | 5          | 1.74               | 4               |
| AL-A600     | 6          | 2.95               | 15              |
| AL-A800     | 8          | 7.58               | 2               |
| AL-A1000    | 10         | 9.88               | 2               |
| HDAL-A801   | 8          | 9.48               | 2               |



**Aluminum Part B Female Coupler x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-B050     | 1/2 x 1/2  | 0.18               | 100             |
| AL-B075     | 3/4        | 0.24               | 50              |
| AL-B100     | 1          | 0.36               | 30              |
| AL-B125     | 1 1/4      | 0.62               | 45              |
| AL-B150     | 1 1/2      | 0.70               | 30              |
| AL-B200     | 2          | 0.86               | 50              |
| AL-B250     | 2 1/2      | 1.02               | 40              |
| AL-B300     | 3          | 1.56               | 25              |
| AL-B400     | 4          | 2.42               | 25              |
| AL-B500     | 5          | 3.34               | 4               |
| AL-B600     | 6          | 4.98               | 10              |
| AL-B800     | 8          | 8.03               | 2               |
| AL-B1000    | 10         | 12.13              | 2               |
| HDAL-B801   | 8          | 10.54              | 2               |



**Aluminum Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-C050     | 1/2 x 1/2  | 0.20               | 100             |
| AL-C075     | 3/4        | 0.26               | 50              |
| AL-C100     | 1          | 0.42               | 60              |
| AL-C125     | 1 1/4      | 0.68               | 35              |
| AL-C150     | 1 1/2      | 0.74               | 30              |
| AL-C200     | 2          | 0.98               | 40              |
| AL-C250     | 2 1/2      | 1.28               | 30              |
| AL-C300     | 3          | 2.20               | 15              |
| AL-C400     | 4          | 3.16               | 15              |
| AL-C500     | 5          | 3.88               | 4               |
| AL-C600     | 6          | 7.70               | 6               |
| AL-C800     | 8          | 10.63              | 1               |
| AL-C1000    | 10         | 16.67              | 1               |
| HDAL-C801   | 8          | 12.58              | 1               |



**Aluminum Part D Female Coupler x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-D050     | 1/2 x 1/2  | 0.18               | 100             |
| AL-D075     | 3/4        | 0.22               | 50              |
| AL-D100     | 1          | 0.42               | 30              |
| AL-D125     | 1 1/4      | 0.68               | 40              |
| AL-D150     | 1 1/2      | 0.80               | 30              |
| AL-D200     | 2          | 0.92               | 40              |
| AL-D250     | 2 1/2      | 1.18               | 35              |
| AL-D300     | 3          | 1.80               | 20              |
| AL-D400     | 4          | 2.16               | 10              |
| AL-D500     | 5          | 3.42               | 4               |
| AL-D600     | 6          | 4.24               | 10              |
| AL-D800     | 8          | 9.50               | 2               |
| AL-D1000    | 10         | 12.52              | 2               |
| HDAL-D801   | 8          | 11.77              | 2               |

See applications and specifications on page 25.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





## Aluminum Quick-Acting Couplings



**Aluminum Part E Male Adapter x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-E050     | 1/2 x 1/2  | 0.08               | 100             |
| AL-E075     | 3/4        | 0.11               | 50              |
| AL-E100     | 1          | 0.20               | 50              |
| AL-E125     | 1 1/4      | 0.26               | 30              |
| AL-E150     | 1 1/2      | 0.38               | 40              |
| AL-E200     | 2          | 0.60               | 50              |
| AL-E250     | 2 1/2      | 0.86               | 20              |
| AL-E300     | 3          | 1.32               | 18              |
| AL-E400     | 4          | 2.10               | 20              |
| AL-E500     | 5          | 3.56               | 4               |
| AL-E600     | 6          | 6.16               | 6               |
| AL-E800     | 8          | 7.73               | 2               |
| AL-E1000    | 10         | 12.90              | 1               |
| HDAL-E801   | 8          | 9.75               | 2               |



**Aluminum Part F Male Adapter x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-F050     | 1/2 x 1/2  | 0.14               | 100             |
| AL-F075     | 3/4        | 0.16               | 50              |
| AL-F100     | 1          | 0.20               | 45              |
| AL-F125     | 1 1/4      | 0.34               | 30              |
| AL-F150     | 1 1/2      | 0.46               | 50              |
| AL-F200     | 2          | 0.68               | 60              |
| AL-F250     | 2 1/2      | 0.96               | 30              |
| AL-F300     | 3          | 1.30               | 20              |
| AL-F400     | 4          | 2.32               | 25              |
| AL-F500     | 5          | 2.94               | 4               |
| AL-F600     | 6          | 3.92               | 10              |
| AL-F800     | 8          | 7.94               | 2               |
| AL-F1000    | 10         | 10.58              | 2               |
| HDAL-F801   | 8          | 9.95               | 2               |



**Aluminum Part DC Dust Cap**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-DC050    | 1/2        | 0.18               | 100             |
| AL-DC075    | 3/4        | 0.22               | 50              |
| AL-DC100    | 1          | 0.34               | 40              |
| AL-DC125    | 1 1/4      | 0.58               | 25              |
| AL-DC150    | 1 1/2      | 0.64               | 40              |
| AL-DC200    | 2          | 0.80               | 60              |
| AL-DC250    | 2 1/2      | 0.94               | 50              |
| AL-DC300    | 3          | 1.44               | 30              |
| AL-DC400    | 4          | 2.34               | 15              |
| AL-DC500    | 5          | 3.06               | 4               |
| AL-DC600    | 6          | 4.66               | 6               |
| AL-DC800    | 8          | 9.04               | 4               |
| AL-DC1000   | 10         | 12.54              | 3               |
| HDAL-DC801  | 8          | 10.63              | 4               |



**Aluminum Part DP Dust Plug**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-DP050    | 1/2        | 0.07               | 100             |
| AL-DP075    | 3/4        | 0.08               | 50              |
| AL-DP100    | 1          | 0.10               | 80              |
| AL-DP125    | 1 1/4      | 0.18               | 50              |
| AL-DP150    | 1 1/2      | 0.25               | 50              |
| AL-DP200    | 2          | 0.38               | 60              |
| AL-DP250    | 2 1/2      | 0.54               | 40              |
| AL-DP300    | 3          | 0.74               | 50              |
| AL-DP400    | 4          | 1.22               | 25              |
| AL-DP500    | 5          | 1.46               | 4               |
| AL-DP600    | 6          | 2.53               | 20              |
| AL-DP800    | 8          | 4.04               | 6               |
| AL-DP1000   | 10         | 5.36               | 4               |
| HDAL-DP801  | 8          | 5.00               | 6               |

See applications and specifications on page 25.

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## Brass Quick-Acting Couplings



**Brass Part A Male Adapter x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BR-A050     | 1/2 x 1/2  | 0.15               | 50              |
| BR-A075     | 3/4        | 0.24               | 25              |
| BR-A100     | 1          | 0.34               | 25              |
| BR-A125     | 1 1/4      | 0.66               | 36              |
| BR-A150     | 1 1/2      | 0.73               | 25              |
| BR-A200     | 2          | 0.86               | 20              |
| BR-A250     | 2 1/2      | 1.61               | 12              |
| BR-A300     | 3          | 1.72               | 8               |
| BR-A400     | 4          | 3.41               | 6               |
| BR-A500     | 5          | 4.85               | 4               |
| BR-A600     | 6          | 7.27               | 2               |



**Brass Part B Female Coupler x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BR-B050     | 1/2 x 1/2  | 0.36               | 50              |
| BR-B075     | 3/4        | 0.44               | 25              |
| BR-B100     | 1          | 0.66               | 25              |
| BR-B125     | 1 1/4      | 1.19               | 20              |
| BR-B150     | 1 1/2      | 1.21               | 20              |
| BR-B200     | 2          | 1.39               | 20              |
| BR-B250     | 2 1/2      | 1.87               | 12              |
| BR-B300     | 3          | 3.36               | 8               |
| BR-B400     | 4          | 4.19               | 6               |
| BR-B500     | 5          | 5.18               | 4               |
| BR-B600     | 6          | 8.25               | 2               |



**Brass Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BR-C050     | 1/2 x 1/2  | 0.35               | 50              |
| BR-C075     | 3/4        | 0.53               | 25              |
| BR-C100     | 1          | 0.81               | 25              |
| BR-C125     | 1 1/4      | 1.23               | 20              |
| BR-C150     | 1 1/2      | 1.32               | 20              |
| BR-C200     | 2          | 1.72               | 20              |
| BR-C250     | 2 1/2      | 2.42               | 12              |
| BR-C300     | 3          | 3.74               | 8               |
| BR-C400     | 4          | 5.51               | 6               |
| BR-C500     | 5          | 7.27               | 4               |
| BR-C600     | 6          | 13.77              | 2               |



**Brass Part D Female Coupler x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BR-D050     | 1/2 x 1/2  | 0.35               | 50              |
| BR-D075     | 3/4        | 0.51               | 25              |
| BR-D100     | 1          | 0.75               | 25              |
| BR-D125     | 1 1/4      | 1.12               | 20              |
| BR-D150     | 1 1/2      | 1.21               | 25              |
| BR-D200     | 2          | 1.43               | 25              |
| BR-D250     | 2 1/2      | 1.87               | 12              |
| BR-D300     | 3          | 3.13               | 8               |
| BR-D400     | 4          | 5.29               | 6               |
| BR-D500     | 5          | 5.62               | 4               |
| BR-D600     | 6          | 10.95              | 2               |

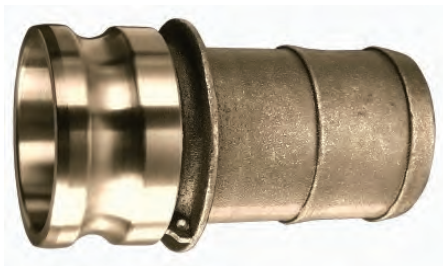
See applications and specifications on page 25.

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## Brass Quick-Acting Couplings



**Brass Part E Male Adapter x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BR-E050     | 1/2 x 1/2  | 0.24               | 50              |
| BR-E075     | 3/4        | 0.36               | 25              |
| BR-E100     | 1          | 0.59               | 25              |
| BR-E125     | 1 1/4      | 0.75               | 25              |
| BR-E150     | 1 1/2      | 1.01               | 25              |
| BR-E200     | 2          | 1.54               | 20              |
| BR-E250     | 2 1/2      | 2.11               | 12              |
| BR-E300     | 3          | 3.08               | 8               |
| BR-E400     | 4          | 4.30               | 6               |
| BR-E500     | 5          | 7.60               | 4               |
| BR-E600     | 6          | 12.33              | 2               |



**Brass Part F Male Adapter x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BR-F050     | 1/2 x 1/2  | 0.22               | 50              |
| BR-F075     | 3/4        | 0.33               | 25              |
| BR-F100     | 1          | 0.53               | 25              |
| BR-F125     | 1 1/4      | 0.66               | 25              |
| BR-F150     | 1 1/2      | 0.88               | 25              |
| BR-F200     | 2          | 1.08               | 20              |
| BR-F250     | 2 1/2      | 1.85               | 12              |
| BR-F300     | 3          | 2.42               | 8               |
| BR-F400     | 4          | 3.74               | 6               |
| BR-F500     | 5          | 4.63               | 4               |
| BR-F600     | 6          | 9.03               | 2               |



**Brass Part DC Dust Cap**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BR-DC075    | 3/4        | 0.66               | 50              |
| BR-DC100    | 1          | 0.95               | 25              |
| BR-DC125    | 1 1/4      | 1.04               | 20              |
| BR-DC150    | 1 1/2      | 1.32               | 25              |
| BR-DC200    | 2          | 2.05               | 20              |
| BR-DC250    | 2 1/2      | 2.20               | 12              |
| BR-DC300    | 3          | 3.96               | 8               |
| BR-DC400    | 4          | 4.74               | 6               |
| BR-DC500    | 5          | 8.59               | 4               |
| BR-DC600    | 6          | 4.66               | 2               |



**Brass Part DP Dust Plug**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BR-DP075    | 3/4        | 0.22               | 50              |
| BR-DP100    | 1          | 0.33               | 25              |
| BR-DP125    | 1 1/4      | 0.46               | 25              |
| BR-DP150    | 1 1/2      | 0.53               | 25              |
| BR-DP200    | 2          | 0.99               | 20              |
| BR-DP250    | 2 1/2      | 1.20               | 12              |
| BR-DP300    | 3          | 1.65               | 8               |
| BR-DP400    | 4          | 2.42               | 6               |
| BR-DP500    | 5          | 3.74               | 4               |
| BR-DP600    | 6          | 4.74               | 2               |

See applications and specifications on page 25.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





## SS316 Stainless Steel Quick-Acting Couplings



**316 Stainless Part A Male Adapter x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS-A050     | 1/2 x 1/2  | 0.20               | 50              |
| SS-A075     | 3/4        | 0.26               | 25              |
| SS-A100     | 1          | 0.34               | 25              |
| SS-A125     | 1 1/4      | 0.62               | 36              |
| SS-A150     | 1 1/2      | 0.80               | 25              |
| SS-A200     | 2          | 1.12               | 20              |
| SS-A250     | 2 1/2      | 1.76               | 12              |
| SS-A300     | 3          | 2.16               | 8               |
| SS-A400     | 4          | 2.88               | 6               |
| SS-A500     | 5          | 4.30               | 4               |
| SS-A600     | 6          | 6.00               | 2               |



**316 Stainless Part B Female Coupler x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS-B050     | 1/2 x 1/2  | 0.30               | 50              |
| SS-B075     | 3/4        | 0.42               | 25              |
| SS-B100     | 1          | 0.64               | 25              |
| SS-B125     | 1 1/4      | 1.32               | 20              |
| SS-B150     | 1 1/2      | 1.50               | 20              |
| SS-B200     | 2          | 1.92               | 20              |
| SS-B250     | 2 1/2      | 2.68               | 12              |
| SS-B300     | 3          | 3.20               | 8               |
| SS-B400     | 4          | 6.58               | 6               |
| SS-B500     | 5          | 6.80               | 4               |
| SS-B600     | 6          | 10.98              | 2               |



**316 Stainless Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS-C050     | 1/2 x 1/2  | 0.30               | 50              |
| SS-C075     | 3/4        | 0.46               | 25              |
| SS-C100     | 1          | 0.74               | 25              |
| SS-C125     | 1 1/4      | 1.41               | 20              |
| SS-C150     | 1 1/2      | 1.68               | 20              |
| SS-C200     | 2          | 2.30               | 20              |
| SS-C250     | 2 1/2      | 3.10               | 12              |
| SS-C300     | 3          | 4.12               | 8               |
| SS-C400     | 4          | 6.98               | 6               |
| SS-C500     | 5          | 10.32              | 4               |
| SS-C600     | 6          | 14.55              | 2               |



**316 Stainless Part D Female Coupler x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS-D050     | 1/2 x 1/2  | 0.40               | 50              |
| SS-D075     | 3/4        | 0.52               | 25              |
| SS-D100     | 1          | 0.74               | 25              |
| SS-D125     | 1 1/4      | 1.47               | 20              |
| SS-D150     | 1 1/2      | 1.52               | 25              |
| SS-D200     | 2          | 2.16               | 25              |
| SS-D250     | 2 1/2      | 3.12               | 12              |
| SS-D300     | 3          | 3.82               | 8               |
| SS-D400     | 4          | 5.14               | 6               |
| SS-D500     | 5          | 8.00               | 4               |
| SS-D600     | 6          | 10.06              | 2               |

See applications and specifications on page 26.

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## SS316 Stainless Steel Quick-Acting Couplings



**316 Stainless Part E Male Adapter x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS-E050     | 1/2 x 1/2  | 0.25               | 50              |
| SS-E075     | 3/4        | 0.36               | 25              |
| SS-E100     | 1          | 0.60               | 25              |
| SS-E125     | 1 1/4      | 0.95               | 25              |
| SS-E150     | 1 1/2      | 1.22               | 25              |
| SS-E200     | 2          | 1.98               | 20              |
| SS-E250     | 2 1/2      | 2.64               | 12              |
| SS-E300     | 3          | 3.90               | 8               |
| SS-E400     | 4          | 6.38               | 6               |
| SS-E500     | 5          | 9.10               | 4               |
| SS-E600     | 6          | 13.49              | 2               |



**316 Stainless Part F Male Adapter x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS-F050     | 1/2 x 1/2  | 0.30               | 50              |
| SS-F075     | 3/4        | 0.40               | 25              |
| SS-F100     | 1          | 0.56               | 25              |
| SS-F125     | 1 1/4      | 1.06               | 25              |
| SS-F150     | 1 1/2      | 1.28               | 25              |
| SS-F200     | 2          | 1.82               | 20              |
| SS-F250     | 2 1/2      | 2.68               | 12              |
| SS-F300     | 3          | 3.92               | 8               |
| SS-F400     | 4          | 6.32               | 6               |
| SS-F500     | 5          | 8.26               | 4               |
| SS-F600     | 6          | 11.27              | 2               |



**316 Stainless Part DC Dust Cap**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS-DC050    | 1/2        | 0.25               | 50              |
| SS-DC075    | 3/4        | 0.36               | 25              |
| SS-DC100    | 1          | 0.54               | 25              |
| SS-DC125    | 1 1/4      | 1.30               | 20              |
| SS-DC150    | 1 1/2      | 1.46               | 25              |
| SS-DC200    | 2          | 1.78               | 20              |
| SS-DC250    | 2 1/2      | 2.38               | 12              |
| SS-DC300    | 3          | 3.04               | 8               |
| SS-DC400    | 4          | 5.02               | 6               |
| SS-DC500    | 5          | 7.35               | 4               |
| SS-DC600    | 6          | 9.92               | 2               |



**316 Stainless Part DP Dust Plug**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS-DP050    | 1/2        | 0.15               | 50              |
| SS-DP075    | 3/4        | 0.20               | 25              |
| SS-DP100    | 1          | 0.28               | 25              |
| SS-DP125    | 1 1/4      | 0.60               | 25              |
| SS-DP150    | 1 1/2      | 0.72               | 25              |
| SS-DP200    | 2          | 0.96               | 20              |
| SS-DP250    | 2 1/2      | 1.47               | 12              |
| SS-DP300    | 3          | 1.94               | 8               |
| SS-DP400    | 4          | 3.36               | 6               |
| SS-DP500    | 5          | 6.24               | 4               |
| SS-DP600    | 6          | 9.08               | 2               |

See applications and specifications on page 26.

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## SS304 Stainless Steel Quick-Acting Couplings



**304 Stainless Part A Male Adapter x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS304-A050  | 1/2 x 1/2  | 0.20               | 50              |
| SS304-A075  | 3/4        | 0.26               | 25              |
| SS304-A100  | 1          | 0.34               | 25              |
| SS304-A125  | 1 1/4      | 0.62               | 36              |
| SS304-A150  | 1 1/2      | 0.80               | 25              |
| SS304-A200  | 2          | 1.12               | 20              |
| SS304-A250  | 2 1/2      | 1.76               | 12              |
| SS304-A300  | 3          | 2.16               | 8               |
| SS304-A400  | 4          | 2.88               | 6               |
| SS304-A500  | 5          | 4.30               | 4               |
| SS304-A600  | 6          | 6.00               | 2               |



**304 Stainless Part B Female Coupler x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS304-B050  | 1/2 x 1/2  | 0.30               | 50              |
| SS304-B075  | 3/4        | 0.42               | 25              |
| SS304-B100  | 1          | 0.64               | 25              |
| SS304-B125  | 1 1/4      | 1.32               | 20              |
| SS304-B150  | 1 1/2      | 1.50               | 20              |
| SS304-B200  | 2          | 1.92               | 20              |
| SS304-B250  | 2 1/2      | 2.68               | 12              |
| SS304-B300  | 3          | 3.20               | 8               |
| SS304-B400  | 4          | 6.58               | 6               |
| SS304-B500  | 5          | 6.80               | 4               |
| SS304-B600  | 6          | 10.98              | 2               |



**304 Stainless Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS304-C050  | 1/2 x 1/2  | 0.30               | 50              |
| SS304-C075  | 3/4        | 0.46               | 25              |
| SS304-C100  | 1          | 0.74               | 25              |
| SS304-C125  | 1 1/4      | 1.41               | 20              |
| SS304-C150  | 1 1/2      | 1.68               | 20              |
| SS304-C200  | 2          | 2.30               | 20              |
| SS304-C250  | 2 1/2      | 3.10               | 12              |
| SS304-C300  | 3          | 4.12               | 8               |
| SS304-C400  | 4          | 6.98               | 6               |
| SS304-C500  | 5          | 10.32              | 4               |
| SS304-C600  | 6          | 14.55              | 2               |



**304 Stainless Part D Female Coupler x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS304-D050  | 1/2 x 1/2  | 0.40               | 50              |
| SS304-D075  | 3/4        | 0.52               | 25              |
| SS304-D100  | 1          | 0.74               | 25              |
| SS304-D125  | 1 1/4      | 1.47               | 20              |
| SS304-D150  | 1 1/2      | 1.52               | 25              |
| SS304-D200  | 2          | 2.16               | 25              |
| SS304-D250  | 2 1/2      | 3.12               | 12              |
| SS304-D300  | 3          | 3.82               | 8               |
| SS304-D400  | 4          | 5.14               | 6               |
| SS304-D500  | 5          | 8.00               | 4               |
| SS304-D600  | 6          | 10.06              | 2               |

See applications and specifications on page 26.

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## SS304 Stainless Steel Quick-Acting Couplings



**304 Stainless Part E Male Adapter x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS304-E050  | 1/2 x 1/2  | 0.25               | 50              |
| SS304-E075  | 3/4        | 0.36               | 25              |
| SS304-E100  | 1          | 0.60               | 25              |
| SS304-E125  | 1 1/4      | 0.95               | 25              |
| SS304-E150  | 1 1/2      | 1.22               | 25              |
| SS304-E200  | 2          | 1.98               | 20              |
| SS304-E250  | 2 1/2      | 2.64               | 12              |
| SS304-E300  | 3          | 3.90               | 8               |
| SS304-E400  | 4          | 6.38               | 6               |
| SS304-E500  | 5          | 9.10               | 4               |
| SS304-E600  | 6          | 13.49              | 2               |



**304 Stainless Part F Male Adapter x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS304-F050  | 1/2 x 1/2  | 0.30               | 50              |
| SS304-F075  | 3/4        | 0.40               | 25              |
| SS304-F100  | 1          | 0.56               | 25              |
| SS304-F125  | 1 1/4      | 1.06               | 25              |
| SS304-F150  | 1 1/2      | 1.28               | 25              |
| SS304-F200  | 2          | 1.82               | 20              |
| SS304-F250  | 2 1/2      | 2.68               | 12              |
| SS304-F300  | 3          | 3.92               | 8               |
| SS304-F400  | 4          | 6.32               | 6               |
| SS304-F500  | 5          | 8.26               | 4               |
| SS304-F600  | 6          | 11.27              | 2               |



**304 Stainless Part DC Dust Cap**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS304-DC050 | 1/2        | 0.25               | 50              |
| SS304-DC075 | 3/4        | 0.36               | 25              |
| SS304-DC100 | 1          | 0.54               | 25              |
| SS304-DC125 | 1 1/4      | 1.30               | 20              |
| SS304-DC150 | 1 1/2      | 1.46               | 25              |
| SS304-DC200 | 2          | 1.78               | 20              |
| SS304-DC250 | 2 1/2      | 2.38               | 12              |
| SS304-DC300 | 3          | 3.04               | 8               |
| SS304-DC400 | 4          | 5.02               | 6               |
| SS304-DC500 | 5          | 7.35               | 4               |
| SS304-DC600 | 6          | 9.92               | 2               |



**304 Stainless Part DP Dust Plug**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SS304-DP050 | 1/2        | 0.15               | 50              |
| SS304-DP075 | 3/4        | 0.20               | 25              |
| SS304-DP100 | 1          | 0.28               | 25              |
| SS304-DP125 | 1 1/4      | 0.60               | 25              |
| SS304-DP150 | 1 1/2      | 0.72               | 25              |
| SS304-DP200 | 2          | 0.96               | 20              |
| SS304-DP250 | 2 1/2      | 1.47               | 12              |
| SS304-DP300 | 3          | 1.94               | 8               |
| SS304-DP400 | 4          | 3.36               | 6               |
| SS304-DP600 | 6          | 9.08               | 2               |

See applications and specifications on page 26.

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## Polypropylene Quick-Acting Couplings



**Polypropylene Part A Male Adapter x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPA050      | 1/2 x 1/2  | 0.04               | 200             |
| PPA075      | 3/4        | 0.05               | 50              |
| PPA100      | 1          | 0.05               | 70              |
| PPA125      | 1 1/4      | 0.10               | 40              |
| PPA150      | 1 1/2      | 0.14               | 30              |
| PPA200      | 2          | 0.19               | 40              |
| PPA300      | 3          | 0.48               | 35              |
| PPA400      | 4          | 1.02               | 20              |



**Polypropylene Part B Female Coupler x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPB050      | 1/2 x 1/2  | 0.17               | 50              |
| PPB075      | 3/4        | 0.18               | 50              |
| PPB100      | 1          | 0.26               | 30              |
| PPB125      | 1 1/4      | 0.40               | 45              |
| PPB150      | 1 1/2      | 0.47               | 30              |
| PPB200      | 2          | 0.49               | 50              |
| PPB300      | 3          | 1.17               | 25              |
| PPB400      | 4          | 1.44               | 25              |



**Polypropylene Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPC050      | 1/2 x 1/2  | 0.17               | 100             |
| PPC075      | 3/4        | 0.19               | 50              |
| PPC100      | 1          | 0.27               | 60              |
| PPC125      | 1 1/4      | 0.40               | 35              |
| PPC150      | 1 1/2      | 0.51               | 30              |
| PPC200      | 2          | 0.61               | 40              |
| PPC300      | 3          | 1.28               | 15              |
| PPC400      | 4          | 1.70               | 15              |



**Polypropylene Part D Female Coupler x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPD050      | 1/2 x 1/2  | 0.18               | 100             |
| PPD075      | 3/4        | 0.19               | 50              |
| PPD100      | 1          | 0.25               | 30              |
| PPD125      | 1 1/4      | 0.41               | 40              |
| PPD150      | 1 1/2      | 0.53               | 30              |
| PPD200      | 2          | 0.55               | 40              |
| PPD300      | 3          | 1.17               | 20              |
| PPD400      | 4          | 1.58               | 10              |

See applications and specifications on page 27.

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## Polypropylene Quick-Acting Couplings



**Polypropylene Part E Male Adapter x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPE050      | 1/2 x 1/2  | 0.03               | 200             |
| PPE075      | 3/4        | 0.06               | 50              |
| PPE100      | 1          | 0.08               | 50              |
| PPE125      | 1 1/4      | 0.15               | 30              |
| PPE150      | 1 1/2      | 0.17               | 40              |
| PPE200      | 2          | 0.30               | 50              |
| PPE300      | 3          | 0.76               | 18              |
| PPE400      | 4          | 1.00               | 20              |



**Polypropylene Part F Male Adapter x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPF050      | 1/2 x 1/2  | 0.04               | 200             |
| PPF075      | 3/4        | 0.06               | 50              |
| PPF100      | 1          | 0.11               | 45              |
| PPF125      | 1 1/4      | 0.15               | 30              |
| PPF150      | 1 1/2      | 0.18               | 50              |
| PPF200      | 2          | 0.29               | 60              |
| PPF300      | 3          | 0.56               | 20              |
| PPF400      | 4          | 0.81               | 25              |



**Polypropylene Part DC Dust Cap**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPDC050     | 1/2        | 0.16               | 100             |
| PPDC075     | 3/4        | 0.17               | 50              |
| PPDC100     | 1          | 0.24               | 40              |
| PPDC125     | 1 1/4      | 0.42               | 25              |
| PPDC150     | 1 1/2      | 0.47               | 40              |
| PPDC200     | 2          | 0.50               | 60              |
| PPDC300     | 3          | 1.06               | 30              |
| PPDC400     | 4          | 1.11               | 15              |



**Polypropylene Part DP Dust Plug**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPDP050     | 1/2        | 0.02               | 200             |
| PPDP075     | 3/4        | 0.03               | 50              |
| PPDP100     | 1          | 0.04               | 80              |
| PPDP125     | 1 1/4      | 0.06               | 50              |
| PPDP150     | 1 1/2      | 0.10               | 50              |
| PPDP200     | 2          | 0.15               | 60              |
| PPDP300     | 3          | 0.36               | 50              |
| PPDP400     | 4          | 0.50               | 25              |

See applications and specifications on page 27.

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## Glass Reinforced Nylon Quick-Acting Couplings



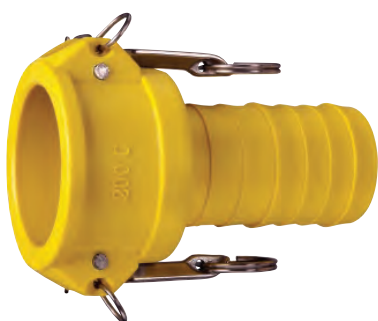
**Nylon Part A Male Adapter x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GRA100      | 1          | 0.16               | 70              |
| GRA150      | 1 1/2      | 0.18               | 30              |
| GRA200      | 2          | 0.26               | 40              |
| GRA300      | 3          | 0.46               | 35              |
| GRA400      | 4          | 0.92               | 20              |



**Nylon Part B Female Coupler x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GRB100      | 1          | 0.16               | 30              |
| GRB150      | 1 1/2      | 0.46               | 30              |
| GRB200      | 2          | 0.52               | 50              |
| GRB300      | 3          | 1.02               | 25              |
| GRB400      | 4          | 1.34               | 25              |



**Nylon Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GRC100      | 1          | 0.18               | 60              |
| GRC150      | 1 1/2      | 0.50               | 30              |
| GRC200      | 2          | 0.58               | 40              |
| GRC300      | 3          | 1.24               | 15              |
| GRC400      | 4          | 1.60               | 15              |



**Nylon Part D Female Coupler x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GRD100      | 1          | 0.18               | 30              |
| GRD150      | 1 1/2      | 0.50               | 30              |
| GRD200      | 2          | 0.58               | 40              |
| GRD300      | 3          | 1.04               | 20              |
| GRD400      | 4          | 1.48               | 10              |

See applications and specifications on page 27.

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## Glass Reinforced Nylon Quick-Acting Couplings



**Nylon Part E Male Adapter x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GRE100      | 1          | 0.16               | 50              |
| GRE150      | 1 1/2      | 0.18               | 40              |
| GRE200      | 2          | 0.28               | 50              |
| GRE300      | 3          | 0.66               | 18              |
| GRE400      | 4          | 1.04               | 20              |



**Nylon Part F Male Coupler x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GRF100      | 1          | 0.10               | 45              |
| GRF150      | 1 1/2      | 0.18               | 50              |
| GRF200      | 2          | 0.28               | 60              |
| GRF300      | 3          | 0.66               | 20              |
| GRF400      | 4          | 0.90               | 25              |



**Nylon Part DC Dust Cap**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GRDC100     | 1          | 0.16               | 40              |
| GRDC150     | 1 1/2      | 0.46               | 40              |
| GRDC200     | 2          | 0.50               | 60              |
| GRDC300     | 3          | 0.96               | 30              |
| GRDC400     | 4          | 1.16               | 15              |



**Nylon Part DP Dust Plug**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GRDP100     | 1          | 0.06               | 50              |
| GRDP150     | 1 1/2      | 0.12               | 50              |
| GRDP200     | 2          | 0.20               | 60              |
| GRDP300     | 3          | 0.36               | 50              |
| GRDP400     | 4          | 0.60               | 25              |

See applications and specifications on page 27.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





## EZ-Seal™ Leak Resistant Couplings Ideally Suited for Layflat Hoses

### Applications:

- Agriculture • Chemicals • Petroleum • Construction
- Material handling

### Construction:

- Aluminum; ASTM B85 Grade 383

### Features & Benefits:

- Rubber seals - Help prevent leakage
- Interchangeability - Part C & E conform to Mil Spec A-A-59326
- Versatile - Suitable for use with other PVC and Rubber Hoses

**Note:** To insure proper sealing attach band clamps directly over rubber seals.



**Aluminum Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-CLF150   | 1 1/2      | 0.77               | 30              |
| AL-CLF200   | 2          | 0.98               | 40              |
| AL-CLF300   | 3          | 1.98               | 15              |
| AL-CLF400   | 4          | 2.87               | 15              |



**Aluminum Part E Male Adapter x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-ELF150   | 1 1/2      | 0.44               | 40              |
| AL-ELF200   | 2          | 0.64               | 50              |
| AL-ELF300   | 3          | 1.38               | 18              |
| AL-ELF400   | 4          | 2.51               | 20              |



**Aluminum Pin Lug Hose Shank with  
Brass Swivel Nut Female End (NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| ABF-LF150   | 1 1/2      | 0.37               | 150             |
| ABF-LF200   | 2          | 0.58               | 80              |
| ABF-LF300   | 3          | 1.16               | 24              |
| ABF-LF400   | 4          | 2.01               | 20              |



**Aluminum Pin Lug Hose Shank Male End  
(NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| ABM-LF150   | 1 1/2      | 0.22               | 150             |
| ABM-LF200   | 2          | 0.40               | 80              |
| ABM-LF300   | 3          | 1.04               | 24              |
| ABM-LF400   | 4          | 1.48               | 20              |

See applications and specifications on pages 25 & 36.

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## Ductile Iron Quick-Acting Couplings

### “Maximum Flow Design”



**Ductile Iron Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| DI-C400     | 4          | 7.29               | 15              |



**Ductile Iron Part E Male Adapter x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| DI-E400     | 4          | 5.84               | 20              |

## ALSH Aluminum Quick-Acting Couplings

### Supplied with Stainless Steel Handles, Slot Pins, Safety Clips & Pull Rings



**Aluminum Part B Female Coupler x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| ALSH-B100   | 1          | 0.36               | 25              |
| ALSH-B125   | 1 1/4      | 0.62               | 20              |
| ALSH-B150   | 1 1/2      | 0.70               | 12              |
| ALSH-B200   | 2          | 0.86               | 10              |
| ALSH-B250   | 2 1/2      | 1.02               | 12              |
| ALSH-B300   | 3          | 1.56               | 8               |
| ALSH-B400   | 4          | 2.42               | 12              |



**Aluminum Part D Female Coupler x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| ALSH-D100   | 1          | 0.42               | 25              |
| ALSH-D125   | 1 1/4      | 0.68               | 20              |
| ALSH-D150   | 1 1/2      | 0.80               | 12              |
| ALSH-D200   | 2          | 0.92               | 10              |
| ALSH-D250   | 2 1/2      | 1.18               | 12              |
| ALSH-D300   | 3          | 1.80               | 10              |
| ALSH-D400   | 4          | 2.82               | 10              |



**Aluminum Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| ALSH-C100   | 1          | 0.42               | 25              |
| ALSH-C125   | 1 1/4      | 0.68               | 20              |
| ALSH-C150   | 1 1/2      | 0.74               | 10              |
| ALSH-C200   | 2          | 0.98               | 12              |
| ALSH-C250   | 2 1/2      | 1.28               | 12              |
| ALSH-C300   | 3          | 2.20               | 5               |
| ALSH-C400   | 4          | 3.16               | 6               |



**Aluminum Part DC Dust Cap**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| ALSH-DC100  | 1          | 0.34               | 25              |
| ALSH-DC125  | 1 1/4      | 0.58               | 20              |
| ALSH-DC150  | 1 1/2      | 0.64               | 25              |
| ALSH-DC200  | 2          | 0.80               | 20              |
| ALSH-DC250  | 2 1/2      | 0.94               | 12              |
| ALSH-DC300  | 3          | 1.44               | 8               |
| ALSH-DC400  | 4          | 2.34               | 6               |

See applications and specifications on pages 25 & 27.

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## Quick-Acting Weld Couplings

BW Items are Dual Purpose

Butt Weld to Schedule 40 Pipe or Socket Weld to Nominal OD Tubing



**Aluminum Part F Male Adapter**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BW-ALF150   | 1 1/2      | 0.52               | 50              |
| BW-ALF200   | 2          | 0.74               | 60              |
| BW-ALF250   | 2 1/2      | 1.02               | 30              |
| BW-ALF300   | 3          | 1.36               | 20              |
| BW-ALF400   | 4          | 2.40               | 25              |
| BW-ALF500   | 5          | 3.03               | 4               |
| BW-ALF600   | 6          | 4.01               | 10              |
| BW-ALF800   | 8          | 8.05               | 2               |



**Aluminum Part B Female Coupler**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BW-ALB150   | 1 1/2      | 0.76               | 30              |
| BW-ALB200   | 2          | 0.92               | 50              |
| BW-ALB250   | 2 1/2      | 1.09               | 40              |
| BW-ALB300   | 3          | 1.64               | 25              |
| BW-ALB400   | 4          | 2.51               | 25              |
| BW-ALB500   | 5          | 3.43               | 4               |
| BW-ALB600   | 6          | 5.08               | 10              |
| BW-ALB800   | 8          | 8.15               | 2               |



**Stainless Steel 316 Part F Male Adapter**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BW-SSF150   | 1 1/2      | 1.40               | 25              |
| BW-SSF200   | 2          | 1.57               | 20              |
| BW-SSF250   | 2 1/2      | 2.80               | 12              |
| BW-SSF300   | 3          | 4.17               | 8               |
| BW-SSF400   | 4          | 6.57               | 6               |
| BW-SSF500   | 5          | 8.51               | 4               |
| BW-SSF600   | 6          | 11.52              | 2               |



**Stainless Steel 316 Part B Female Coupler**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BW-SSB150   | 1 1/2      | 1.27               | 20              |
| BW-SSB200   | 2          | 1.57               | 20              |
| BW-SSB250   | 2 1/2      | 2.13               | 12              |
| BW-SSB300   | 3          | 3.21               | 8               |
| BW-SSB400   | 4          | 5.72               | 6               |
| BW-SSB500   | 5          | 6.71               | 4               |
| BW-SSB600   | 6          | 9.13               | 2               |

See applications and specifications on pages 25 & 26.

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## Quick-Acting Weld Couplings

SW Items are Designed for Socket Weld to Schedule 40 Pipe



**Aluminum Part A Male Adapter**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SW-ALA150   | 1 1/2      | 0.37               | 30              |
| SW-ALA200   | 2          | 0.45               | 40              |
| SW-ALA250   | 2 1/2      | 0.65               | 50              |
| SW-ALA300   | 3          | 0.77               | 35              |
| SW-ALA400   | 4          | 1.41               | 20              |
| SW-ALA500   | 5          | 1.70               | 4               |
| SW-ALA600   | 6          | 2.08               | 15              |



**Aluminum Part D Female Coupler**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SW-ALD150   | 1 1/2      | 0.81               | 30              |
| SW-ALD200   | 2          | 0.99               | 40              |
| SW-ALD250   | 2 1/2      | 1.27               | 35              |
| SW-ALD300   | 3          | 1.69               | 20              |
| SW-ALD400   | 4          | 2.91               | 10              |
| SW-ALD500   | 5          | 4.56               | 10              |
| SW-ALD600   | 6          | 5.28               | 10              |



**Stainless Steel 316 Part A Male Adapter**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SW-SSA150   | 1 1/2      | 0.71               | 25              |
| SW-SSA200   | 2          | 1.37               | 12              |
| SW-SSA250   | 2 1/2      | 1.38               | 12              |
| SW-SSA300   | 3          | 1.87               | 8               |
| SW-SSA400   | 4          | 3.95               | 6               |
| SW-SSA500   | 5          | 4.46               | 4               |
| SW-SSA600   | 6          | 6.16               | 2               |



**Stainless Steel 316 Part D Female Coupler**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SW-SSD150   | 1 1/2      | 1.41               | 30              |
| SW-SSD200   | 2          | 1.70               | 40              |
| SW-SSD250   | 2 1/2      | 2.35               | 35              |
| SW-SSD300   | 3          | 3.30               | 20              |
| SW-SSD400   | 4          | 5.32               | 10              |
| SW-SSD500   | 5          | 7.81               | 10              |
| SW-SSD600   | 6          | 20.79              | 10              |

See applications and specifications on pages 25 & 26.

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## Quick-Acting Special Application Couplings Aluminum



**Aluminum Reducing Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-C2015    | 2 x 1/1/2  | 0.93               | 40              |
| AL-C3020    | 3 x 2      | 1.74               | 9               |
| AL-C3040    | 3 x 4      | 2.29               | 8               |
| AL-C4030    | 4 x 3      | 2.94               | 6               |



**Aluminum Reducing Adapter x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-E2015    | 2 x 1/1/2  | 0.64               | 50              |
| AL-E3020    | 3 x 2      | 1.12               | 12              |
| AL-E3040    | 3 x 4      | 1.90               | 8               |
| AL-E4030    | 4 x 3      | 2.03               | 18              |



**Aluminum Reducing Coupler x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-B2030    | 2 x 3      | 1.43               | 12              |
| AL-B3020    | 3 x 2      | 1.57               | 12              |
| AL-B3040    | 3 x 4      | 2.45               | 18              |
| AL-B4030    | 4 x 3      | 2.31               | 10              |



**Aluminum Reducing Adapter x Male NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AL-F2030    | 2 x 3      | 1.06               | 20              |
| AL-F3020    | 3 x 2      | 0.86               | 24              |
| AL-F3040    | 3 x 4      | 1.78               | 25              |
| AL-F4030    | 4 x 3      | 1.57               | 18              |

**\* NEW SIZE**



**Aluminum Reducing Coupler x Adapter**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| RDA-A2030   | 2 x 3      | 1.64               | 12              |
| RDA-A3020   | 3 x 2      | 2.37               | 6               |
| RDA-A3040   | 3 x 4      | 2.60               | 6               |
| RDA-A4020   | 4 x 2      | 2.70               | 6               |
| RDA-A4030   | 4 x 3      | 2.96               | 6               |
| RDA-A6040   | 6 x 4      | 6.66               | 2               |
| * RDA-A8060 | 8 x 6      | 10.40              | 4               |



**Aluminum Spool Adapter**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SA-A150     | 1 1/2      | 0.43               | 50              |
| SA-A200     | 2          | 0.68               | 40              |
| SA-A2030    | 2 x 3      | 0.97               | 12              |
| SA-A300     | 3          | 1.10               | 12              |
| SA-A3040    | 3 x 4      | 1.78               | 8               |
| SA-A400     | 4          | 1.91               | 6               |



**Aluminum Elbow Coupler x Adapter**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| DA90-A200   | 2          | 1.50               | 16              |
| DA90-A300   | 3          | 2.17               | 10              |
| DA90-A400   | 4          | 4.30               | 5               |



**Aluminum Coupler x Coupler**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| DD-AL200    | 2          | 1.43               | 12              |
| DD-AL2030   | 2 x 3      | 4.35               | 9               |
| DD-AL300    | 3          | 2.40               | 6               |
| DD-AL3040   | 3 x 4      | 5.90               | 12              |
| DD-AL400    | 4          | 3.90               | 5               |



**Aluminum Coupler x 150# ASA Flange**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FL-AL-D200  | 2          | 2.35               | 4               |
| FL-AL-D300  | 3          | 5.07               | 3               |
| FL-AL-D400  | 4          | 7.94               | 2               |
| FL-AL-D600  | 6          | 12.89              | 1               |



**Aluminum Adapter x 150# ASA Flange**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FL-AL-A200  | 2          | 3.05               | 6               |
| FL-AL-A300  | 3          | 3.86               | 4               |
| FL-AL-A400  | 4          | 5.86               | 3               |
| FL-AL-A600  | 6          | 9.92               | 2               |

See applications and specifications on page 25.

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## Quick-Acting Special Application Couplings

### Brass



#### Brass Reducing Coupler x Adapter

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| RDA-B2030   | 2 x 3      | 2.86               | 6               |
| RDA-B3020   | 3 x 2      | 6.12               | 6               |
| RDA-B4020   | 4 x 2      | 7.07               | 6               |
| RDA-B4030   | 4 x 3      | 9.42               | 6               |



#### Brass Spool Adapter

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SA-B150     | 1 1/2      | 1.35               | 50              |
| SA-B200     | 2          | 2.11               | 40              |
| SA-B250     | 2 1/2      | 3.55               | 30              |
| SA-B300     | 3          | 3.69               | 20              |
| SA-B400     | 4          | 5.97               | 6               |

**\* NEW SIZE**

### Stainless Steel 316



#### Stainless Steel SS316 Reducing Coupler x Adapter

| Part Number  | Size (in.) | Weight Each (lbs.) | Standard Carton |
|--------------|------------|--------------------|-----------------|
| * RDA-SS2030 | 2 x 3      | 3.45               | 6               |
| RDA-SS3020   | 3 x 2      | 4.08               | 6               |
| RDA-SS4030   | 4 x 3      | 6.41               | 4               |
| RDA-SS6040   | 6 x 4      | 12.10              | 2               |



#### Stainless Steel SS316 Spool Adapter

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SA-SS150    | 1 1/2      | 1.76               | 18              |
| SA-SS1520   | 1 1/2 x 2  | 2.10               | 20              |
| SA-SS200    | 2          | 2.48               | 20              |
| SA-SS2030   | 2 x 3      | 3.14               | 10              |
| SA-SS300    | 3          | 4.61               | 10              |
| SA-SS3040   | 3 x 4      | 5.28               | 6               |
| SA-SS400    | 4          | 7.28               | 6               |



#### Stainless Steel SS316 Coupler x Coupler

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| DD-SS150    | 1 1/2      | 2.10               | 20              |
| DD-SS200    | 2          | 2.89               | 12              |
| DD-SS300    | 3          | 5.11               | 6               |
| DD-SS400    | 4          | 6.66               | 5               |

### Polypropylene



#### Polypropylene 90° Coupler x Hose Shank

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PP150C90    | 1 1/2      | 0.56               | 24              |
| PP200C90    | 2          | 0.73               | 24              |



#### Polypropylene 90° Male Adapter x Female NPT

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PP150A90    | 1 1/2      | 0.23               | 24              |
| PP200A90    | 2          | 0.36               | 24              |



#### Polypropylene 90° Coupler x Female NPT

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PP150D90    | 1 1/2      | 0.65               | 24              |
| PP200D90    | 2          | 0.78               | 24              |



#### Polypropylene 90° Male Adapter x Male NPT

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PP150F90    | 1 1/2      | 0.27               | 24              |
| PP200F90    | 2          | 0.41               | 24              |

See applications and specifications on pages 25 - 27.

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## Petroleum Quick-Acting Couplings



**Aluminum Vapor Recovery Coupler with Probe  
Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| VRP-A4030   | 4 x 3      | 3.04               | 4               |
| VRP-A4040   | 4 x 4      | 3.15               | 4               |



**Aluminum Vapor Recovery Coupler with Probe  
Female Coupler x Female NPT**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| CGDP-A4030  | 4 x 3      | 3.08               | 4               |
| CGDP-A4040  | 4 x 4      | 3.80               | 4               |



**API Aluminum Female Coupler x Male Adapter**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| TCDA-A4030  | 4 x 3      | 4.25               | 4               |
| TCDA-A4040  | 4 x 4      | 4.50               | 4               |



**Aluminum HD Part C Female Coupler x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| TCC-300-A   | 3          | 2.65               | 15              |
| TCC-400-A   | 4          | 3.70               | 15              |



**Aluminum Vapor Recovery Coupler with Probe  
Female Coupler x Male Coupler**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| DAP-4030    | 4 x 3      | 3.54               | 4               |



**NEW**

**Aluminum Vapor Recovery Coupler with Probe  
Female Coupler Poppet with Viton Seal x Hose Shank**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| VRP-P4030   | 4 x 3      | 4.01               | 5               |



**API Aluminum Female Coupler x Female Coupler**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| TCDD-A4040  | 4 x 4      | 6.00               | 2               |



**API Aluminum Dust Cap**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| TCDC-A400   | 4          | 3.00               | 6               |



**Brass Probe**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| VRP-PROBE   | 3/16       | 0.14               | 1               |

See applications and specifications on page 25.

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## Quick-Acting Swivel Couplings

Our specially designed quick-acting swivel couplings come with a Buna-N O-Ring and minimize the torque and twisting that occurs when a hose is in service.



**Aluminum Female Coupler x SS304 Female NPT Swivel**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| KAS-C401    | 4          | 5.20               | 1               |
| KAS-C501    | 5          | 6.53               | 1               |
| KAS-C601    | 6          | 10.49              | 1               |



**Aluminum Male Adapter x SS304 Female NPT Swivel**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| KAS-E401    | 4          | 4.67               | 1               |
| KAS-E501    | 5          | 5.42               | 1               |
| KAS-E601    | 6          | 6.97               | 1               |



**SS304 Male Adapter x SS304 Female NPT Swivel**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| KSS-E401    | 4          | 6.12               | 1               |
| KSS-E501    | 5          | 7.61               | 1               |
| KSS-E601    | 6          | 11.07              | 1               |

## Suggested for use with Tigerflex™ 4" ID hoses

Z-Lok™ Investment cast stainless steel LTW™ (Lifetime Warranty) handles.

Stainless steel ball bearings ensure smooth swivel action.

New SmoothFlow™ tapered throat design provides full flow . . . reduces pressure drop and material build-up in hose.

SureSeal™ Aluminum Collar Clamp (included) provides positive seal . . . eliminates cutting of hose at shank end.

Safety clip provides positive locking.



White Nitrile gasket helps prevent product contamination.

### Aluminum Female Coupler x Hose Shank

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SCAL-C400   | 4          | 5.50               | 4               |

### Aluminum Male Adapter x Hose Shank

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SCAL-E400   | 4          | 3.20               | 4               |

### White Nitrile Gasket

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| WNIT400     | 4          | 0.066              | 10              |

### PSI Rating @ 70°F (+21°C)

|         |        |
|---------|--------|
| 4"      | 72 PSI |
| 5" x 6" | 35 PSI |

See applications and specifications on pages 25 & 26.

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## K-Loc™ Auto Lock SS316 Quick-Acting Couplings



**K-Loc™ Part C Female Coupler x Hose Shank**

| Part Number  | Size (in.) | Weight Each (lbs.) | Standard Carton |
|--------------|------------|--------------------|-----------------|
| KLOC-SS-C150 | 1 1/2      | 1.87               | 15              |
| KLOC-SS-C200 | 2          | 2.80               | 10              |
| KLOC-SS-C300 | 3          | 5.22               | 5               |



**K-Loc™ Part D Female Coupler x Female NPT**

| Part Number  | Size (in.) | Weight Each (lbs.) | Standard Carton |
|--------------|------------|--------------------|-----------------|
| KLOC-SS-D150 | 1 1/2      | 1.74               | 20              |
| KLOC-SS-D200 | 2          | 2.26               | 16              |
| KLOC-SS-D300 | 3          | 3.85               | 4               |



**K-Loc™ Part DC Dust Cap**

| Part Number   | Size (in.) | Weight Each (lbs.) | Standard Carton |
|---------------|------------|--------------------|-----------------|
| KLOC-SS-DC200 | 2          | 1.89               | 18              |
| KLOC-SS-DC300 | 3          | 3.33               | 8               |



**K-Loc™ Part B Female Coupler x Male NPT**

| Part Number  | Size (in.) | Weight Each (lbs.) | Standard Carton |
|--------------|------------|--------------------|-----------------|
| KLOC-SS-B150 | 1 1/2      | 1.57               | 20              |
| KLOC-SS-B200 | 2          | 2.00               | 16              |
| KLOC-SS-B300 | 3          | 3.63               | 4               |

## Aluminum Compression Quick-Acting Couplings

**Note:** Compression Couplings are for attachment to .065" aluminum tubing for dry pneumatic systems only.



**Aluminum Part BC Female Coupler x Compression**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BCAL150     | 1 1/2      | 0.96               | 25              |
| BCAL200     | 2          | 1.16               | 20              |
| BCAL250     | 2 1/2      | 1.54               | 12              |
| BCAL300     | 3          | 2.08               | 10              |



**Aluminum Part FC Male Adapter x Compression**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FCAL150     | 1 1/2      | 0.52               | 25              |
| FCAL200     | 2          | 0.72               | 20              |
| FCAL250     | 2 1/2      | 1.32               | 12              |
| FCAL300     | 3          | 1.46               | 10              |



See applications and specifications on pages 25 & 26.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





## Quick-Acting Coupling Specifications

### Applications

Agriculture • Chemicals • Petroleum • Construction • Material Handling • Irrigation • Fracking

## Aluminum

### Features & Benefits

- All sizes except 1/2", 5" and 8" comply with Mil-Spec A-A-59326 for interchangeability
- 5" Size complies with ASTM specs for interchangeability
- 1/2" x 1/2" are not specified under Mil Specs
- All 8" and 10" female couplers supplied with 4 locking handles, safety clips, pull rings and chains
- Aluminum alloy is specially designed for high tensile strength, lightness and rigidity
- Locking feature using safety clips to prevent disconnection during use on all sizes except 1/2"
- Hose shanks specially designed for easy assembly with Tigerflex type hoses
- Aluminum couplings supplied with brass handles which results in less wear on connecting parts

### Aluminum 8" Coupling Options

- Kuriyama offers both 8" coupling styles in aluminum
- Standard AL-(X)800 couplings interchange with PT Domestic, Dixon Global, Campbell, and Jason
- Heavy Duty HDAL-(X)801 couplings interchange with PT Import, Dixon Andrews, NECO, Ever-Tite, UPD, and Sealfast

### Material Specifications

- ASTM B85 Grade 383 aluminum alloy
- Forged brass handles - aluminum items
- Type 304 stainless steel handles - ALSH items
- Zinc-plated carbon steel handle pins
- Zinc-plated carbon steel pull rings
- Zinc-plated carbon steel safety clips
- Buna-N Gaskets

### PSI Rating @ 70°F (+21°C)

|             |         |
|-------------|---------|
| 1/2" – 2"   | 250 PSI |
| 2 1/2" – 4" | 150 PSI |
| 5" – 6"     | 75 PSI  |
| 8" – 10"    | 50 PSI  |

## Brass

### Features & Benefits

- All sizes except 1/2" and 5" comply with Mil-Spec A-A-59326 for interchangeability
- 5" Size complies with ASTM specs for interchangeability
- 1/2" x 1/2" are not specified under Mil Specs
- Brass alloy is specially designed for high tensile strength and rigidity
- Locking feature using safety clips to prevent disconnection during use on all sizes except 1/2"

### Material Specifications

- ASTM B584 Grade C85700 brass alloy
- Forged brass handles
- Type 304 stainless steel handle pins
- Type 304 stainless steel pull rings
- Zinc-plated carbon steel safety clips
- Buna-N Gaskets

### PSI Rating @ 70°F (+21°C)

|             |         |
|-------------|---------|
| 1/2" – 2"   | 250 PSI |
| 2 1/2" – 4" | 150 PSI |
| 5" – 6"     | 75 PSI  |

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## Quick-Acting Coupling Specifications

### Applications

Agriculture • Chemicals • Petroleum • Construction • Material Handling • Irrigation • Fracking

## 316 Stainless Steel

### Features & Benefits

- All sizes except 1/2" and 5" comply with Mil-Spec A-A-59326 for material and interchangeability
- 5" Size complies with ASTM specs for interchangeability
- 1/2" x 1/2" are not specified under Mil Specs
- Stainless steel alloy chemical composition is analyzed on every melt
- Composition test certificate is available upon request
- Locking feature using safety clips to prevent disconnection during use on all sizes except 1/2"

### Material Specifications

- ASTM A666 316 stainless steel alloy
- Type 304 stainless steel handles
- Type 304 stainless steel handle pins
- Type 304 stainless steel pull rings
- Type 304 stainless steel safety clips
- Buna-N Gaskets

### PSI Rating @ 70°F (+21°C)

|             |         |
|-------------|---------|
| 1/2" – 2"   | 250 PSI |
| 2 1/2" – 4" | 150 PSI |
| 5" – 6"     | 75 PSI  |

## 304 Stainless Steel

### Features & Benefits

- All sizes except 1/2" and 5" comply with Mil-Spec A-A-59326 for material and interchangeability
- 5" Size complies with ASTM specs for interchangeability
- 1/2" x 1/2" are not specified under Mil Specs
- Stainless steel alloy chemical composition is analyzed on every melt
- Composition test certificate is available upon request
- Locking feature using safety clips to prevent disconnection during use on all sizes except 1/2"

### Material Specifications

- ASTM A666 304 stainless steel alloy
- Type 304 stainless steel handles
- Type 304 stainless steel handle pins
- Type 304 stainless steel pull rings
- Type 304 stainless steel safety clips
- Buna-N Gaskets

### PSI Rating @ 70°F (+21°C)

|             |         |
|-------------|---------|
| 1/2" – 2"   | 250 PSI |
| 2 1/2" – 4" | 150 PSI |
| 5" – 6"     | 75 PSI  |

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.







## Quick-Acting Coupling Specifications

### Applications

Agriculture • Chemicals • Petroleum • Construction • Material Handling • Irrigation • Fracking

## Polypropylene

### Features & Benefits

- All sizes except 1/2" comply with Mil-Spec A-A-59326 for interchangeability
- 1/2" x 1/2" are not specified under Mil Specs
- Polypropylene material is glass-filled for added strength and durability
- Locking feature using safety clips to prevent disconnection during use on all sizes except 1/2"
- All 4" size female couplers are supplied with three locking handles to provide added stability

### Material Specifications

- Type 304 stainless steel handles
- Type 304 stainless steel handle pins
- Type 304 stainless steel pull rings
- Type 304 stainless steel safety clips
- EPDM gaskets

### PSI Rating @ 70°F (+21°C)

|           |         |
|-----------|---------|
| 1/2" – 2" | 100 PSI |
| 3" – 4"   | 50 PSI  |

## Glass Reinforced Nylon

### Features & Benefits

- All sizes comply with Mil-Spec A-A-59326 for interchangeability
- Nylon material is fiberglass reinforced for high tensile strength and durability
- Locking feature using safety clips to prevent disconnection during use on all sizes
- All 4" size female couplers are supplied with three locking handles to provide added stability

### Material Specifications

- Type 304 stainless steel handles
- Type 304 stainless steel handle pins
- Type 304 stainless steel pull rings
- Type 304 stainless steel safety clips
- EPDM gaskets

### PSI Rating @ 70°F (+21°C)

|           |         |
|-----------|---------|
| 1/2" – 2" | 100 PSI |
| 3" – 4"   | 50 PSI  |

## Ductile Iron

### Features & Benefits

- All sizes comply with Mil-Spec A-A-59326 for interchangeability
- Coupling ID is specially designed for maximum flow of product
- Locking feature using safety clips to prevent disconnection during use on all sizes

### Material Specifications

- Type 304 stainless steel handles
- Type 304 stainless steel handle pins
- Type 304 stainless steel pull rings
- Zinc-plated carbon steel safety clips
- BUNA gaskets

### PSI Rating @ 70°F (+21°C)

|    |         |
|----|---------|
| 4" | 150 PSI |
|----|---------|

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## Hammer Unions



**Figure 100 Threaded 1000 PSI CWP**  
Economical Low Pressure Union

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUT100-2    | 2          | 5.29               | 6               |
| HUT100-3    | 3          | 11.60              | 5               |
| HUT100-4    | 4          | 17.75              | 3               |
| HUT100-6    | 6          | 44.40              | 1               |
| HUT100-8    | 8          | 69.90              | 1               |



**Figure 400 Threaded 4000 PSI CWP**  
Medium Pressure Union

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUT400-2    | 2          | 11.00              | 4               |
| HUT400-3    | 3          | 19.60              | 2               |
| HUT400-4    | 4          | 29.65              | 1               |



**Figure 200 Threaded 2000 PSI CWP**  
General Purpose Union

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUT200-1    | 1          | 1.55               | 30              |
| HUT200-2    | 2          | 4.55               | 12              |
| HUT200-3    | 3          | 11.70              | 5               |
| HUT200-4    | 4          | 19.00              | 3               |
| HUT200-6    | 6          | 44.40              | 1               |
| HUT200-8    | 8          | 71.45              | 1               |



**Figure 602 Threaded 6000 PSI CWP**  
Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUT602-1    | 1          | 3.75               | 4               |
| HUT602-2    | 2          | 12.90              | 4               |
| HUT602-3    | 3          | 22.80              | 2               |
| HUT602-4    | 4          | 37.04              | 1               |



**NEW SIZES**

**Figure 206 Threaded 2000 PSI CWP**  
General Purpose Union With O-Ring in Male Sub for Improved Sealing

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUT206-2    | 2          | 4.60               | 12              |
| HUT206-3    | 3          | 11.80              | 5               |
| HUT206-4    | 4          | 19.10              | 3               |
| HUT206-6    | 6          | 45.00              | 1               |
| HUT206-8    | 8          | 66.00              | 1               |



**Figure 1002 Threaded 10,000 PSI CWP**  
Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUT1002-2   | 2          | 12.60              | 4               |
| HUT1002-3   | 3          | 22.60              | 2               |
| HUT1002-4   | 4          | 36.10              | 1               |

See applications and specifications on page 29.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





## Hammer Unions



**Figure 602 Butt Weld 6000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUW602-2    | 2          | 13.85              | 4               |
| HUW602-3    | 3          | 26.30              | 2               |
| HUW602-4    | 4          | 37.90              | 1               |



**Figure 1002 Butt Weld 10,000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUW1002-2   | 2          | 13.95              | 4               |
| HUW1002-3   | 3          | 25.80              | 2               |
| HUW1002-4   | 4          | 37.50              | 1               |



**Figure 1502 Threaded 15,000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUT1502-2   | 2          | 18.96              | 2               |
| HUT1502-3   | 3          | 27.56              | 2               |



**Figure 1502 Butt Weld 15,000 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUW1502-2   | 2          | 20.00              | 2               |
| HUW1502-3   | 3          | 29.10              | 2               |
| HUW1502-4   | 4          | 78.55              | 1               |

## Specifications

### Features & Benefits

- Applications include oil, gas, air, and water
- Unions conform to NACE, ISO and DNV standards
- Color coded for easy identification
- CWP (Cold Working Pressure) is the maximum pressure at 70°F (+21°C)
- Unions are completely interchangeable with competitors of like products

### Material Specifications

- ASTM Grade 65-45-12
- ASTM A-105
- ASTM A29
- NPT threads conform to ASME B1.20.1
- Elastomer seals are BUNA-N

### CWP Rating @ 70°F (+21°C)

|             |            |
|-------------|------------|
| Figure 100  | 1000 PSI   |
| Figure 200  | 2000 PSI   |
| Figure 206  | 2000 PSI   |
| Figure 400  | 4000 PSI   |
| Figure 602  | 6000 PSI   |
| Figure 1002 | 10,000 PSI |
| Figure 1502 | 15,000 PSI |

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## Hammer Unions - Barbed



**Figure 206 Barbed 300 PSI CWP**

Specially Designed Lip Type Elastomer Seal Protects Metal to Metal Sealing Surface and Reduces Line Flow Turbulence

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUB206-4    | 4          | 32.00              | 1               |

## Specifications

### Features & Benefits

- Suitable for fracking water and sand slurry applications
- Interchangeable with all Figure 206 Hammer Unions
- Versatility of barbs allow for use with either interlocking crimp ferrules or crimp sleeves
- Eliminates leak paths created with threaded fittings

### Material Specifications

- Hammer nut conforms to ASTM A-105
- Working pressures up to 300 PSI with interlocking crimp ferrules
- Elastomer seals are BUNA-N
- Zinc plated machined malleable iron hose barbs



## Valves



**Polypropylene Ball Valve 4-Bolt Design**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPBV050     | 1/2        | 0.88               | 24              |
| PPBV075     | 3/4        | 0.85               | 24              |
| PPBV100     | 1          | 1.16               | 24              |
| PPBV125     | 1 1/4      | 1.65               | 24              |
| PPBV150     | 1 1/2      | 1.67               | 24              |



**Polypropylene Ball Valve 6-Bolt Design**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPBV200     | 2          | 3.71               | 8               |
| PPBV300     | 3          | 6.60               | 6               |
| PPBV400     | 4          | 9.90               | 2               |

## PPBV Specifications

### Features & Benefits

- Full port
- Stainless steel bolts and nuts
- Teflon™ seals
- Viton® O-Ring stems and seals
- Polypropylene material is glass filled for extra strength
- Female NPT threads

### PSI Rating @ 70°F (+21°C)

|               |         |
|---------------|---------|
| 1/2" - 1 1/2" | 150 PSI |
| 2" - 4"       | 100 PSI |

Viton® is a registered trademark of DuPont Performance Elastomers.  
Teflon™ is a registered trademark of The Chemours Company FC, LLC.



**Foot Valve**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FV150       | 1 1/2      | 2.90               | 12              |
| FV200       | 2          | 5.30               | 8               |
| FV250       | 2 1/2      | 7.30               | 6               |
| FV300       | 3          | 9.00               | 5               |
| FV400       | 4          | 17.90              | 2               |
| FV600       | 6          | 46.60              | 1               |
| FV800       | 8          | 93.70              | 1               |

Kuriyama foot valves are made of cast iron and come with a neoprene flapper valve assembly. Threads are NPT; bolts and nuts are plated steel. Designed for use in irrigation and other pumping applications where water may be dirty due to silt and sand to prevent passage of contaminants to the pump.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.







## Sight Glasses



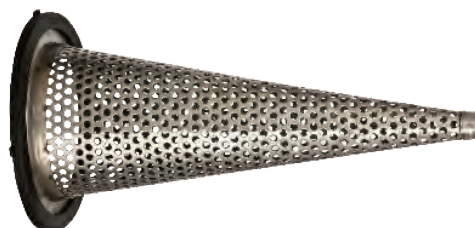
**\* NEW SIZE**

### Sight Glass (NPT Threads)

| Part Number | Size (in.) | Length (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------|--------------------|-----------------|
| * SG200     | 2          | 8            | 0.87               | 30              |
| SG300       | 3          | 8            | 1.08               | 12              |
| SG400       | 4          | 8            | 2.25               | 6               |

Sight Glass is made from a tough polycarbonate material and has a temperature rating of (-50°F to +185°F). It has a 500 PSI rating and allows for viewing of materials at all times.

## Funnel Strainers

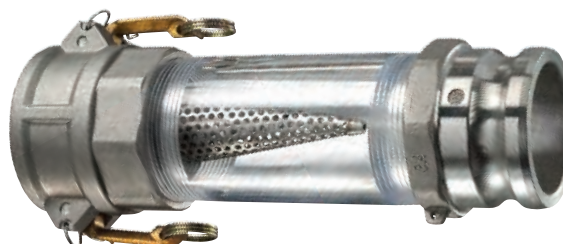


**\* NEW SIZE**

### Funnel Strainer (304 Stainless Steel)

| Part Number | Size (in.) | Length (in.) | Hole Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------|-----------------|--------------------|-----------------|
| * FNS200    | 2          | 3.65         | 0.158           | 0.08               | 120             |
| FNS300      | 3          | 6.30         | 0.158           | 0.19               | 90              |
| FNS400      | 4          | 9.50         | 0.158           | 0.45               | 65              |

Funnel Strainer is made of 304 stainless steel and offers a unique one-piece design which includes a pre-attached buna gasket for better sealing and ease of assembly. It is designed to be used with female quick-acting couplings.



The pictures above show a popular installation set up for the Sight Glass and Funnel Strainer. The picture on the left shows the Funnel Strainer assembled with an aluminum type "D" coupling. The picture on the right shows the complete assembly with the Sight Glass and an aluminum type "A" coupling.  
**Warning: Never use a wrench on the Sight Glass – always tighten the connecting pieces.**

## Aluminum Plate Strainers



**\* NEW SIZE**

### Aluminum Plate Strainer (NPT Threads)

| Part Number | Size (in.) | Hole Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|-----------------|--------------------|-----------------|
| * APS200    | 2          | 0.25            | 0.055              | 120             |
| APS300      | 3          | 0.25            | 0.088              | 90              |
| APS400      | 4          | 0.25            | 0.132              | 75              |

Aluminum Plate Strainer is made to thread into the bottom of a female NPT quick-acting coupler (shown above). It protects pumps and other equipment from large contaminants. "Easy Grip" handle pin design allows for easy assembly.

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## Strainers



\* NEW SIZES

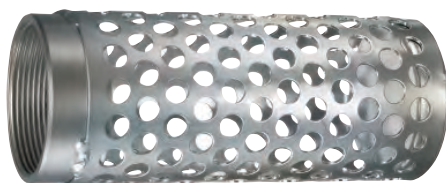


**Round Hole Zinc Plated Steel Strainer  
(NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| RHS150      | 1 1/2      | 1.36               | 32              |
| RHS200      | 2          | 1.78               | 18              |
| RHS250      | 2 1/2      | 2.02               | 18              |
| RHS300      | 3          | 3.08               | 18              |
| RHS400      | 4          | 2.90               | 18              |
| RHS600      | 6          | 6.04               | 6               |
| RHS800      | 8          | 7.34               | 4               |
| * RHS1000   | 10         | 26.50              | 1               |

**Square Hole Zinc Plated Steel Strainer  
(NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SHS150      | 1 1/2      | 1.12               | 32              |
| SHS200      | 2          | 1.74               | 18              |
| SHS300      | 3          | 2.50               | 18              |
| SHS400      | 4          | 2.52               | 18              |
| SHS600      | 6          | 6.32               | 6               |
| * SHS800    | 8          | 7.34               | 4               |
| * SHS1000   | 10         | 26.50              | 1               |



**Long Round Hole Zinc Plated Steel Strainer  
(NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| LHS150      | 1 1/2      | 0.75               | 30              |
| LHS200      | 2          | 0.94               | 25              |
| LHS300      | 3          | 2.00               | 16              |



**Polypropylene Strainer  
(NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPS150      | 1 1/2      | 0.25               | 18              |
| PPS200      | 2          | 0.30               | 18              |
| PPS300      | 3          | 0.65               | 12              |



**Top Hole Zinc Plated Steel Strainer  
(NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| THS150      | 1 1/2      | 1.64               | 25              |
| THS200      | 2          | 2.00               | 20              |
| THS300      | 3          | 2.68               | 15              |



**Bottom Hole Zinc Plated Steel Strainer  
(NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BHS150      | 1 1/2      | 1.64               | 20              |
| BHS200      | 2          | 2.00               | 20              |
| BHS300      | 3          | 2.68               | 15              |

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## Combination Hose Nipples



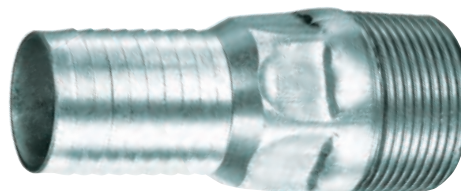
**Hose Nipple (Plain Steel) NPT Threads**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| STN050      | 1/2        | 0.14               | 25              |
| STN075      | 3/4        | 0.22               | 25              |
| STN100      | 1          | 0.32               | 50              |
| STN125      | 1 1/4      | 0.56               | 20              |
| STN150      | 1 1/2      | 0.72               | 10              |
| STN200      | 2          | 1.10               | 40              |
| STN250      | 2 1/2      | 1.74               | 20              |
| STN300      | 3          | 2.18               | 12              |
| STN400      | 4          | 3.22               | 8               |
| STN500      | 5          | 4.12               | 4               |
| STN600      | 6          | 12.24              | 4               |



**Hose Nipple (Hex Plain Steel) NPT Threads**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HEX-STN050  | 1/2        | 0.14               | 25              |
| HEX-STN075  | 3/4        | 0.22               | 25              |
| HEX-STN100  | 1          | 0.32               | 50              |
| HEX-STN125  | 1 1/4      | 0.56               | 20              |



**Hose Nipple (Hex Zinc Plated Steel) NPT Threads**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HEX-SPN050  | 1/2        | 0.14               | 25              |
| HEX-SPN075  | 3/4        | 0.22               | 25              |
| HEX-SPN100  | 1          | 0.32               | 50              |
| HEX-SPN125  | 1 1/4      | 0.56               | 20              |



**Hose Nipple (Zinc Plated Steel) NPT Threads**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SPN050      | 1/2        | 0.14               | 25              |
| SPN075      | 3/4        | 0.22               | 25              |
| SPN100      | 1          | 0.32               | 50              |
| SPN125      | 1 1/4      | 0.56               | 20              |
| SPN150      | 1 1/2      | 0.72               | 10              |
| SPN200      | 2          | 1.10               | 40              |
| SPN250      | 2 1/2      | 1.74               | 20              |
| SPN300      | 3          | 2.18               | 12              |
| SPN400      | 4          | 3.22               | 8               |
| SPN600      | 6          | 12.24              | 4               |
| SPN800      | 8          | 16.44              | 2               |
| SPN1000     | 10         | 21.78              | 1               |
| SPN1200     | 12         | 33.18              | 1               |



**NEW**

**Hose Nipple (Zinc Plated Steel) Grooved End**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GEN100      | 1          | 0.58               | 100             |
| GEN125      | 1 1/4      | 0.62               | 80              |
| GEN150      | 1 1/2      | 0.86               | 60              |
| GEN200      | 2          | 1.28               | 50              |
| GEN250      | 2 1/2      | 2.03               | 20              |
| GEN300      | 3          | 3.17               | 20              |
| GEN400      | 4          | 3.88               | 12              |
| GEN600      | 6          | 14.60              | 4               |
| GEN800      | 8          | 19.73              | 2               |
| GEN1000     | 10         | 26.14              | 1               |
| GEN1200     | 12         | 39.82              | 1               |

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## Combination Hose Nipples



**Hose Nipple (304 Stainless) NPT Threads**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SSN304-050  | 1/2        | 0.18               | 25              |
| SSN304-075  | 3/4        | 0.26               | 25              |
| SSN304-100  | 1          | 0.35               | 50              |
| SSN304-125  | 1 1/4      | 0.55               | 20              |
| SSN304-150  | 1 1/2      | 0.66               | 10              |
| SSN304-200  | 2          | 1.16               | 40              |
| SSN304-250  | 2 1/2      | 1.31               | 20              |
| SSN304-300  | 3          | 2.20               | 12              |
| SSN304-400  | 4          | 3.31               | 8               |
| SSN304-500  | 5          | 8.82               | 4               |
| SSN304-600  | 6          | 11.02              | 4               |



**Hose Nipple (316 Stainless) NPT Threads**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SSN050      | 1/2        | 0.18               | 25              |
| SSN075      | 3/4        | 0.26               | 25              |
| SSN100      | 1          | 0.35               | 50              |
| SSN125      | 1 1/4      | 0.55               | 20              |
| SSN150      | 1 1/2      | 0.66               | 10              |
| SSN200      | 2          | 1.16               | 40              |
| SSN250      | 2 1/2      | 1.31               | 20              |
| SSN300      | 3          | 2.20               | 12              |
| SSN400      | 4          | 3.31               | 8               |
| SSN500      | 5          | 8.82               | 4               |
| SSN600      | 6          | 11.02              | 4               |



**Hose Nipple (Polypropylene) NPT Threads**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| PPN050      | 1/2        | 0.03               | 400             |
| PPN075      | 3/4        | 0.06               | 200             |
| PPN100      | 1          | 0.07               | 100             |
| PPN125      | 1 1/4      | 0.11               | 80              |
| PPN150      | 1 1/2      | 0.13               | 60              |
| PPN200      | 2          | 0.22               | 40              |
| PPN300      | 3          | 0.55               | 12              |



**Hose Nipple (Glass Reinforced Nylon) NPT Threads**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GRN050      | 1/2        | 0.03               | 400             |
| GRN075      | 3/4        | 0.06               | 200             |
| GRN100      | 1          | 0.07               | 100             |
| GRN125      | 1 1/4      | 0.11               | 80              |
| GRN150      | 1 1/2      | 0.13               | 60              |
| GRN200      | 2          | 0.22               | 40              |
| GRN300      | 3          | 0.55               | 12              |
| GRN400      | 4          | 0.80               | 12              |

### PSI Rating @ 70°F (+21°C)

#### Steel, Plated Steel, Stainless Steel Polypropylene

|               |         |
|---------------|---------|
| 1/2" – 1 1/2" | 125 PSI |
| 2" – 6"       | 75 PSI  |
| 8" – 12"      | 50 PSI  |

#### Glass Reinforced Nylon

|           |         |
|-----------|---------|
| 1/2" – 2" | 150 PSI |
| 3"        | 125 PSI |
| 4"        | 75 PSI  |

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## Pin Lug Hose Shank Couplings



**Aluminum Shank with Brass Swivel Nut Complete Set (NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| AB150       | 1 1/2      | 0.56               | 75              |
| AB200       | 2          | 0.88               | 40              |
| AB250       | 2 1/2      | 1.34               | 18              |
| AB300       | 3          | 2.70               | 12              |
| AB400       | 4          | 4.42               | 10              |
| AB600       | 6          | 8.30               | 4               |



**Brass Shank with Brass Swivel Nut Complete Set (NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BB150       | 1 1/2      | 1.17               | 35              |
| BB200       | 2          | 1.98               | 30              |
| BB300       | 3          | 5.00               | 12              |
| BB400       | 4          | 9.38               | 6               |



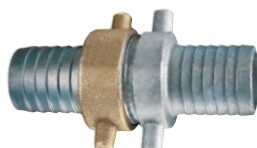
**Aluminum Shank Male (NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| ABM150      | 1 1/2      | 0.18               | 150             |
| ABM200      | 2          | 0.25               | 80              |
| ABM250      | 2 1/2      | 0.40               | 36              |
| ABM300      | 3          | 1.04               | 24              |
| ABM400      | 4          | 1.70               | 20              |
| ABM600      | 6          | 3.04               | 8               |



**Aluminum Shank with Brass Swivel Nut Female (NPSM Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| ABF150      | 1 1/2      | 0.38               | 150             |
| ABF200      | 2          | 0.62               | 80              |
| ABF250      | 2 1/2      | 0.94               | 36              |
| ABF300      | 3          | 1.66               | 24              |
| ABF400      | 4          | 2.72               | 20              |
| ABF600      | 6          | 5.26               | 8               |



**Aluminum Shank with Brass Swivel Nut Complete Set (NST Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FHNST150    | 1 1/2      | 0.43               | 40              |
| FHNST250    | 2 1/2      | 1.04               | 12              |



**Aluminum Shank with Brass Swivel Nut Female (NST Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FHNST-F150  | 1 1/2      | 0.29               | 150             |
| FHNST-F250  | 2 1/2      | 0.70               | 36              |

### PSI Rating @ 70°F (+21°C)

|             |        |
|-------------|--------|
| 1/2" – 2"   | 75 PSI |
| 2 1/2" – 4" | 50 PSI |
| 6"          | 25 PSI |

**NEW**



**Aluminum Shank Male End (NST Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FHNST-M150  | 1 1/2      | 0.14               | 150             |
| FHNST-M250  | 2 1/2      | 0.34               | 36              |

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## Notes

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## Ground Joint Couplings



**Hose Stem with Wing Nut and Female NPT Spud  
(Complete Set Consisting of GJS, GJN, GJF)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GJ-050      | 1/2        | 0.75               | 50              |
| GJ-075      | 3/4        | 1.86               | 25              |
| GJ-100      | 1          | 1.81               | 30              |
| GJ-125      | 1 1/4      | 3.73               | 15              |
| GJ-150      | 1 1/2      | 3.68               | 15              |
| GJ-200      | 2          | 5.69               | 10              |
| GJ-250      | 2 1/2      | 12.59              | 4               |
| GJ-300      | 3          | 15.85              | 4               |
| GJ-400      | 4          | 28.46              | 2               |



**Wing Nut (NPS Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GJN-050     | 1/2        | 0.31               | 200             |
| GJN-075     | 3/4        | 0.71               | 60              |
| GJN-100     | 1          | 0.71               | 60              |
| GJN-125     | 1 1/4      | 1.52               | 40              |
| GJN-150     | 1 1/2      | 1.52               | 40              |
| GJN-200     | 2          | 2.54               | 24              |
| GJN-250     | 2 1/2      | 4.65               | 10              |
| GJN-300     | 3          | 5.51               | 10              |
| GJN-400     | 4          | 10.63              | 4               |



**Hose Stem**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GJS-050     | 1/2        | 0.18               | 200             |
| GJS-075     | 3/4        | 0.55               | 100             |
| GJS-100     | 1          | 0.81               | 100             |
| GJS-125     | 1 1/4      | 1.17               | 32              |
| GJS-150     | 1 1/2      | 1.30               | 35              |
| GJS-200     | 2          | 1.72               | 25              |
| GJS-250     | 2 1/2      | 3.70               | 10              |
| GJS-300     | 3          | 4.83               | 8               |
| GJS-400     | 4          | 8.95               | 4               |



**Female Spud with Copper Seal  
(Female NPT x Male NPS)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GJF-050     | 1/2        | 0.29               | 200             |
| GJF-075     | 3/4        | 0.64               | 100             |
| GJF-100     | 1          | 0.57               | 100             |
| GJF-125     | 1 1/4      | 1.21               | 40              |
| GJF-150     | 1 1/2      | 1.04               | 40              |
| GJF-200     | 2          | 1.39               | 32              |
| GJF-250     | 2 1/2      | 4.23               | 12              |
| GJF-300     | 3          | 5.51               | 10              |
| GJF-400     | 4          | 8.88               | 5               |

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## Ground Joint Couplings



**Male Spud with Copper Seal  
(Male NPT x Male NPS)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GMS-050     | 1/2        | 0.29               | 100             |
| GMS-075     | 3/4        | 0.75               | 60              |
| GMS-100     | 1          | 0.79               | 50              |
| GMS-125     | 1 1/4      | 1.43               | 30              |
| GMS-150     | 1 1/2      | 1.70               | 30              |
| GMS-200     | 2          | 2.23               | 30              |



**Double Spud with Copper Seal  
(Male NPS x Male NPS)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GDS-050     | 1/2        | 0.40               | 100             |
| GDS-075     | 3/4        | 1.32               | 60              |
| GDS-100     | 1          | 1.32               | 50              |
| GDS-125     | 1 1/4      | 1.41               | 30              |
| GDS-150     | 1 1/2      | 1.41               | 30              |
| GDS-200     | 2          | 1.92               | 24              |



**Threaded Male Hose Shank  
(Male NPT x Hose Shank)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| GJM-050     | 1/2        | 0.17               | 250             |
| GJM-075     | 3/4        | 0.33               | 250             |
| GJM-100     | 1          | 0.55               | 100             |
| GJM-125     | 1 1/4      | 1.28               | 32              |
| GJM-150     | 1 1/2      | 1.79               | 25              |
| GJM-200     | 2          | 2.65               | 20              |
| GJM-250     | 2 1/2      | 4.83               | 8               |
| GJM-300     | 3          | 6.26               | 6               |
| GJM-400     | 4          | 11.40              | 3               |

## Specifications

### PSI Rating

|       |         |
|-------|---------|
| Steam | 250 PSI |
| Air   | 600 PSI |

**Temperature** 450°F (+232°C)

Interlocking Bolt Clamps recommended when assembling to a hose.



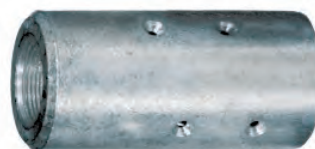


## Sandblast Couplings



**Aluminum Two Lug Hose Coupling**

| Part Number | Hose Size (in.) | Hose OD (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|---------------|--------------------|-----------------|
| Q-AL050     | 1/2             | 1.06          | 0.15               | 6               |
| Q-AL1       | 3/4             | 1 1/2         | 0.36               | 6               |
| Q-AL2       | 1               | 1 7/8         | 0.36               | 6               |
| Q-AL3       | 1 1/4           | 2 5/32        | 0.66               | 6               |
| Q-AL4       | 1 1/2           | 2 3/8         | 0.88               | 6               |
| †Q-AL5      | 1 1/2           | 2 3/8         | 1.10               | 6               |



**Aluminum Nozzle Holder (NPS Threads)**

| Part Number | Hose Size (in.) | Hose OD (in.) | NPS Thread Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|---------------|-----------------------|--------------------|-----------------|
| NH-AL050    | 1/2             | 1.06          | 3/4                   | 0.15               | 6               |
| NH-AL1      | 3/4             | 1 1/2         | 1 1/4                 | 0.30               | 6               |
| NH-AL2      | 1               | 1 7/8         | 1 1/4                 | 0.36               | 6               |
| NH-AL3      | 1 1/4           | 2 5/32        | 1 1/4                 | 0.52               | 6               |
| NH-AL4      | 1 1/2           | 2 3/8         | 1 1/4                 | 0.98               | 6               |



**Brass Two Lug Hose Coupling**

| Part Number | Hose Size (in.) | Hose OD (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|---------------|--------------------|-----------------|
| Q-BR1       | 3/4             | 1 1/2         | 1.06               | 6               |
| Q-BR2       | 1               | 1 7/8         | 1.12               | 6               |
| Q-BR3       | 1 1/4           | 2 5/32        | 1.94               | 6               |
| Q-BR4       | 1 1/2           | 2 3/8         | 2.64               | 6               |
| †Q-BR5      | 1 1/2           | 2 3/8         | 3.50               | 6               |



**Brass Nozzle Holder (NPS Threads)**

| Part Number | Hose Size (in.) | Hose OD (in.) | NPS Thread Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|---------------|-----------------------|--------------------|-----------------|
| NH-BR1      | 3/4             | 1 1/2         | 1 1/4                 | 0.94               | 6               |
| NH-BR2      | 1               | 1 7/8         | 1 1/4                 | 1.02               | 6               |
| NH-BR3      | 1 1/4           | 2 5/32        | 1 1/4                 | 1.58               | 6               |
| NH-BR4      | 1 1/2           | 2 3/8         | 1 1/4                 | 2.96               | 6               |



**Plated Iron Two Lug Hose Coupling**

| Part Number | Hose Size (in.) | Hose OD (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|---------------|--------------------|-----------------|
| Q-PI1       | 3/4             | 1 1/2         | 0.98               | 10              |
| Q-PI2       | 1               | 1 7/8         | 1.02               | 10              |
| Q-PI3       | 1 1/4           | 2 5/32        | 1.84               | 10              |
| Q-PI4       | 1 1/2           | 2 3/8         | 2.38               | 10              |



**Aluminum Two Lug Female Threaded Coupling (NPT Threads)**

| Part Number | Hose Size (in.) | NPT Thread (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|------------------|--------------------|-----------------|
| SB-AL1      | 1 1/4           | 1 1/4            | 0.34               | 6               |
| SB-AL2      | 1 1/2           | 1 1/2            | 0.28               | 6               |
| †SB-AL3     | 1 1/2           | 1 1/2            | 1.05               | 6               |



**Brass Two Lug Female Threaded Coupling (NPT Threads)**

| Part Number | Hose Size (in.) | NPT Thread (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|------------------|--------------------|-----------------|
| SB-BR1      | 1 1/4           | 1 1/4            | 1.02               | 6               |
| SB-BR2      | 1 1/2           | 1 1/2            | 0.84               | 6               |
| †SB-BR3     | 1 1/2           | 1 1/2            | 3.05               | 6               |

## Specifications

### PSI Rating @ 70°F (+21°C)

All Sizes Brass 175 PSI

All Sizes Aluminum 150 PSI

**\*Note:** Q-AL5, Q-BR5, SB-AL3 and SB-BR3 are large ID full flow fittings for 1 1/2" ID hose and are not interchangeable with the standard fittings.

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## Universal Air Hose Couplings



**Zinc Plated Two Lug Hose Coupling**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HE-38       | 3/8        | 0.44               | 25              |
| HE-50       | 1/2        | 0.48               | 25              |
| HE-75       | 3/4        | 0.56               | 25              |
| HE-100      | 1          | 0.64               | 25              |



**Zinc Plated Four Lug Hose Coupling**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HE-125      | 1 1/4      | 1.70               | 10              |
| HE-150      | 1 1/2      | 1.80               | 10              |
| HE-200      | 2          | 2.00               | 10              |



**Zinc Plated Two Lug Female Threaded Coupling (NPT Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FE-25       | 1/4        | 0.32               | 25              |
| FE-38       | 3/8        | 0.33               | 25              |
| FE-50       | 1/2        | 0.44               | 25              |
| FE-75       | 3/4        | 0.48               | 25              |
| FE-100      | 1          | 0.52               | 25              |



**Zinc Plated Three Way Connector**

| Part Number | Weight Each (lbs.) | Standard Carton |
|-------------|--------------------|-----------------|
| TWC         | 0.90               | 12              |

### PSI Rating @ 70°F (+21°C)

1/4" – 2" 150 PSI



**Zinc Plated Two Lug Hose Coupling with Crimp Ferrule**

| Part Number | Size (in.) | Hose OD (in.)     | Weight Each (lbs.) | Standard Carton |
|-------------|------------|-------------------|--------------------|-----------------|
| FHE-50      | 1/2        | 27/32 - 1 1/32    | 0.50               | 20              |
| FHE-75      | 3/4        | 1 1/16 - 1 11/32  | 0.60               | 20              |
| FHE-100     | 1          | 1 9/32 - 1 17/32  | 0.66               | 20              |
| FHE-101     | 1          | 1 15/32 - 1 23/32 | 0.66               | 20              |



**Zinc Plated Two Lug Male Threaded Coupling (NPT Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| ME-25       | 1/4        | 0.36               | 25              |
| ME-38       | 3/8        | 0.40               | 25              |
| ME-50       | 1/2        | 0.44               | 25              |
| ME-75       | 3/4        | 0.48               | 25              |
| ME-100      | 1          | 0.60               | 25              |



**Zinc Plated Four Lug Female Threaded Coupling (NPT Threads)**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FE-125      | 1 1/4      | 0.90               | 10              |
| FE-150      | 1 1/2      | 1.00               | 10              |
| FE-200      | 2          | 1.20               | 10              |



**Zinc Plated Blank End**

| Part Number | Weight Each (lbs.) | Standard Carton |
|-------------|--------------------|-----------------|
| BE          | 0.52               | 25              |

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## Kuri-Clamp™ Center Punch Clamps

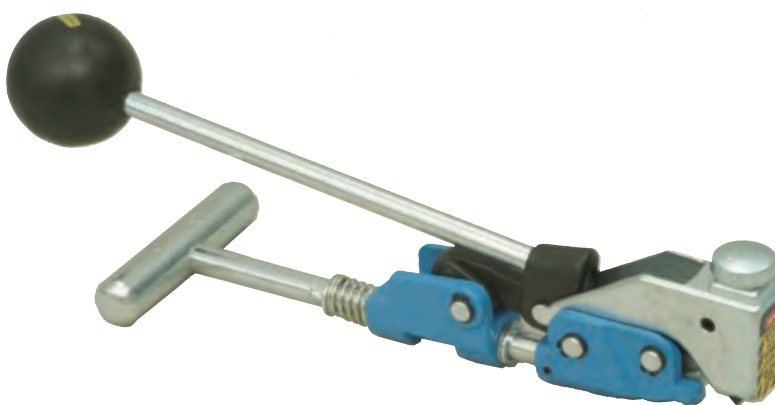
### Features & Benefits:

- Doubled wrapped for secure holding ability
- Compatible with most pneumatic equipment or hand operated tools
- Available in both carbon steel & 201 stainless steel



**Carbon Steel**

**201 Stainless Steel**



### Kuri-Clamp™ Center Punch Clamp Tool

| Part Number | Description         | Weight Each (lbs.) | Standard Box |
|-------------|---------------------|--------------------|--------------|
| CPT300      | Center Punch Tool   | 3.00               | 1            |
| CPA032      | Replacement Adapter | 0.14               | 1            |

The center punch tool will work with both 3/8" and 5/8" wide clamps. The CPA032 adapter is required to assemble the 3/8" wide clamps. This adapter is provided with the CPT300 tool and also sold separately.

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## Kuri-Clamp™ Center Punch Clamps



**Galvanized Carbon Steel Center Punch Clamp**

| Part Number | Size (in.) | Pieces Per Box | Band Width (in.) | Weight Per Box (lbs.) | Standard Box |
|-------------|------------|----------------|------------------|-----------------------|--------------|
| CPCS03      | 13/16      | 100            | 3/8              | 3.60                  | 1            |
| CPCS31      | 1 3/8      | 100            | 3/8              | 4.60                  | 1            |
| CPCS04      | 1          | 100            | 5/8              | 8.30                  | 1            |
| CPCS05      | 1 1/4      | 100            | 5/8              | 8.70                  | 1            |
| CPCS06      | 1 1/2      | 100            | 5/8              | 9.70                  | 1            |
| CPCS07      | 1 3/4      | 100            | 5/8              | 10.60                 | 1            |
| CPCS08      | 2          | 100            | 5/8              | 11.50                 | 1            |
| CPCS09      | 2 1/4      | 100            | 5/8              | 12.60                 | 1            |
| CPCS10      | 2 1/2      | 50             | 5/8              | 6.80                  | 1            |
| CPCS11      | 2 3/4      | 50             | 5/8              | 7.30                  | 1            |
| CPCS12      | 3          | 50             | 5/8              | 7.70                  | 1            |
| CPCS14      | 3 1/2      | 50             | 5/8              | 8.70                  | 1            |
| CPCS16      | 4          | 25             | 5/8              | 4.90                  | 1            |
| CPCS18      | 4 1/2      | 25             | 5/8              | 5.50                  | 1            |
| CPCS20      | 5          | 25             | 5/8              | 5.90                  | 1            |
| CPCS24      | 6          | 25             | 5/8              | 6.80                  | 1            |
| CPCS26      | 6 1/2      | 25             | 5/8              | 7.10                  | 1            |
| CPCS28      | 7          | 25             | 5/8              | 7.40                  | 1            |
| CPCS32      | 8          | 25             | 5/8              | 8.20                  | 1            |

\*Clamps are sold in box quantities only.



**201 Stainless Steel Center Punch Clamp**

| Part Number | Size (in.) | Pieces Per Box | Band Width (in.) | Weight Per Box (lbs.) | Standard Box |
|-------------|------------|----------------|------------------|-----------------------|--------------|
| CPSS03      | 13/16      | 100            | 3/8              | 3.60                  | 1            |
| CPSS31      | 1 3/8      | 100            | 3/8              | 4.60                  | 1            |
| CPSS04      | 1          | 100            | 5/8              | 8.30                  | 1            |
| CPSS05      | 1 1/4      | 100            | 5/8              | 8.70                  | 1            |
| CPSS06      | 1 1/2      | 100            | 5/8              | 9.70                  | 1            |
| CPSS07      | 1 3/4      | 100            | 5/8              | 10.60                 | 1            |
| CPSS08      | 2          | 100            | 5/8              | 11.50                 | 1            |
| CPSS09      | 2 1/4      | 100            | 5/8              | 12.60                 | 1            |
| CPSS10      | 2 1/2      | 50             | 5/8              | 6.80                  | 1            |
| CPSS11      | 2 3/4      | 50             | 5/8              | 7.30                  | 1            |
| CPSS12      | 3          | 50             | 5/8              | 7.70                  | 1            |
| CPSS14      | 3 1/2      | 50             | 5/8              | 8.70                  | 1            |
| CPSS16      | 4          | 25             | 5/8              | 4.90                  | 1            |
| CPSS18      | 4 1/2      | 25             | 5/8              | 5.50                  | 1            |
| CPSS20      | 5          | 25             | 5/8              | 5.90                  | 1            |
| CPSS24      | 6          | 25             | 5/8              | 6.80                  | 1            |
| CPSS26      | 6 1/2      | 25             | 5/8              | 7.10                  | 1            |
| CPSS28      | 7          | 25             | 5/8              | 7.40                  | 1            |
| CPSS32      | 8          | 25             | 5/8              | 8.20                  | 1            |

\*Clamps are sold in box quantities only.





NEW  
SIZES

## Tiger Clamp™ Spiral Double Bolt Clamps



**Zinc Plated Carbon Steel Spiral Double Bolt Clamp (For Counterclockwise Spiral Hoses)**  
**Designed for Tigerflex™ PVC Suction Hoses**

| Part Number | Size (in.) | Torque (ft. lbs.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|-------------------|--------------------|-----------------|
| SDBC-1.5    | 1 1/2      | 6                 | 0.18               | 100             |
| SDBC-2      | 2          | 6                 | 0.36               | 100             |
| SDBC-2.25   | 2 1/4      | 6                 | 0.40               | 100             |
| SDBC-2.5    | 2 1/2      | 8                 | 0.48               | 100             |
| SDBC-3      | 3          | 8                 | 0.66               | 70              |
| SDBC-3.5    | 3 1/2      | 8                 | 0.70               | 70              |
| SDBC-4      | 4          | 24                | 1.02               | 40              |
| SDBC-5      | 5          | 24                | 1.76               | 30              |
| SDBC-6      | 6          | 30                | 2.00               | 20              |
| SDBC-8      | 8          | 30                | 2.76               | 10              |
| SDBC-10     | 10         | 30                | 3.46               | 10              |
| SDBC-12     | 12         | 30                | 4.14               | 10              |



**Stainless Steel 304 Spiral Double Bolt Clamp (For Counterclockwise Spiral Hoses)**  
**Designed for Tigerflex™ PVC Suction Hoses**

| Part Number | Size (in.) | Torque (ft. lbs.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|-------------------|--------------------|-----------------|
| SDBC-SS-1.5 | 1 1/2      | 6                 | 0.20               | 100             |
| SDBC-SS-2   | 2          | 6                 | 0.40               | 100             |
| SDBC-SS-2.5 | 2 1/2      | 8                 | 0.53               | 100             |
| SDBC-SS-3   | 3          | 8                 | 0.73               | 70              |
| SDBC-SS-3.5 | 3 1/2      | 8                 | 0.77               | 70              |
| SDBC-SS-4   | 4          | 24                | 1.12               | 40              |
| SDBC-SS-5   | 5          | 24                | 1.94               | 30              |
| SDBC-SS-6   | 6          | 30                | 2.20               | 20              |
| SDBC-SS-8   | 8          | 30                | 3.04               | 10              |
| SDBC-SS-10  | 10         | 30                | 3.81               | 10              |
| SDBC-SS-12  | 12         | 30                | 4.55               | 10              |



**Zinc Plated Carbon Steel Spiral Double Bolt Clamp (For Clockwise Spiral Hoses)**  
**Designed for Tigerflex™ Tiger-TR1™ Hoses**

| Part Number | Size (in.) | Torque (ft. lbs.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|-------------------|--------------------|-----------------|
| SDBCR-1.5   | 1 1/2      | 6                 | 0.18               | 100             |
| SDBCR-2     | 2          | 6                 | 0.36               | 100             |
| SDBCR-3     | 3          | 8                 | 0.66               | 70              |
| SDBCR-4     | 4          | 24                | 1.02               | 40              |
| SDBCR-5     | 5          | 24                | 1.76               | 30              |
| SDBCR-6     | 6          | 30                | 2.00               | 20              |
| SDBCR-8     | 8          | 30                | 2.76               | 10              |
| SDBCR-10    | 10         | 30                | 3.46               | 10              |
| SDBCR-12    | 12         | 30                | 4.14               | 10              |

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





## Ducting-Bridge Clamps/Double Bolt Clamps



**Bridge Clamp for Ducting Hoses  
300 Stainless Worm Gear Band  
(For Counterclockwise Spiral Hoses)**

| Part Number | Size (in.) | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|------------------|--------------------|-----------------|
| DCLPL250    | 2 1/2      | 2 3/8 - 2 3/4    | 0.086              | 200             |
| DCLPL300    | 3          | 2 7/8 - 3 3/8    | 0.093              | 200             |
| DCLPL400    | 4          | 3 1/2 - 4 1/2    | 0.130              | 200             |
| DCLPL500    | 5          | 4 3/8 - 5 1/4    | 0.143              | 200             |
| DCLPL600    | 6          | 5 1/4 - 6 1/4    | 0.167              | 200             |
| DCLPL700    | 7          | 6 1/4 - 7 1/4    | 0.175              | 200             |
| DCLPL800    | 8          | 7 3/8 - 8 3/8    | 0.207              | 100             |
| DCLPL1000   | 10         | 9 1/4 - 10 1/4   | 0.242              | 100             |
| DCLPL1200   | 12         | 11 1/4 - 12 1/4  | 0.284              | 100             |



**Bridge Clamp for Ducting Hoses  
300 Stainless Worm Gear Band  
(For Clockwise Spiral Hoses)**

| Part Number | Size (in.) | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|------------------|--------------------|-----------------|
| DCLPR250    | 2 1/2      | 2 3/8 - 2 3/4    | 0.086              | 200             |
| DCLPR300    | 3          | 2 7/8 - 3 3/8    | 0.093              | 200             |
| DCLPR400    | 4          | 3 1/2 - 4 1/2    | 0.130              | 200             |
| DCLPR500    | 5          | 4 3/8 - 5 1/4    | 0.143              | 200             |
| DCLPR600    | 6          | 5 1/4 - 6 1/4    | 0.167              | 200             |
| DCLPR700    | 7          | 6 1/4 - 7 1/4    | 0.175              | 200             |
| DCLPR800    | 8          | 7 3/8 - 8 3/8    | 0.207              | 100             |
| DCLPR1000   | 10         | 9 1/4 - 10 1/4   | 0.242              | 100             |
| DCLPR1200   | 12         | 11 1/4 - 12 1/4  | 0.284              | 100             |



**Zinc Plated Ductile Iron Double Bolt Hose Clamp**

| Part Number | Size Range (in.) | Torque (ft. lbs.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------------|-------------------|--------------------|-----------------|
| DB29        | 7/8 - 1 9/64     | 20                | 0.29               | 200             |
| DB34        | 1 5/32 - 1 11/32 | 20                | 0.31               | 200             |
| DB40        | 1 5/16 - 1 19/32 | 20                | 0.43               | 100             |
| DB49        | 1 5/8 - 1 15/16  | 20                | 0.56               | 100             |
| DB60        | 1 7/8 - 2 3/8    | 20                | 0.64               | 60              |
| DB76        | 2 3/8 - 3 1/64   | 40                | 0.73               | 60              |
| DB94        | 3 1/32 - 3 11/16 | 40                | 1.30               | 40              |
| DB400       | 3 1/2 - 4        | 40                | 1.54               | 30              |
| DB463       | 4 1/16 - 4 7/16  | 40                | 1.79               | 30              |
| DB525       | 4 3/16 - 5       | 60                | 2.14               | 20              |
| DB550       | 5 - 5 1/2        | 60                | 2.27               | 20              |
| DB600       | 5 1/2 - 6 1/16   | 60                | 2.65               | 20              |
| DB675       | 6 1/8 - 6 7/8    | 60                | 2.98               | 20              |
| DB769       | 6 15/16 - 7 5/8  | 60                | 3.81               | 10              |
| DB818       | 7 11/16 - 8 3/16 | 125               | 5.11               | 10              |
| DB875       | 8 1/4 - 8 7/8    | 125               | 5.64               | 10              |
| DB988       | 8 15/16 - 9 7/8  | 125               | 6.15               | 10              |
| DB1125      | 9 15/16 - 11 3/8 | 125               | 9.48               | 4               |
| DB1275      | 11 3/16 - 12 1/2 | 125               | 9.61               | 4               |
| DB1360      | 12 3/16 - 14     | 200               | 15.43              | 3               |

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





## T-Bolt Clamps



**Heavy Duty T-Bolt Clamp**  
**304 Stainless Steel Band, Bolt and Nut**

| Part Number | Size Range (in.)  | Band Width (in.) | Torque (ft. lbs.) | Weight Each (lbs.) | Standard Carton |
|-------------|-------------------|------------------|-------------------|--------------------|-----------------|
| TBC-SS019   | 21/32 - 3/4       | 23/32            | 6                 | 0.064              | 500             |
| TBC-SS022   | 25/32 - 7/8       | 23/32            | 6                 | 0.066              | 500             |
| TBC-SS025   | 29/32 - 1         | 23/32            | 6                 | 0.068              | 500             |
| TBC-SS028   | 1 1/32 - 1 3/32   | 23/32            | 6                 | 0.068              | 500             |
| TBC-SS031   | 1 5/32 - 1 5/16   | 25/32            | 7                 | 0.115              | 500             |
| TBC-SS035   | 1 1/4 - 1 3/8     | 25/32            | 7                 | 0.115              | 500             |
| TBC-SS039   | 1 3/8 - 1 9/16    | 25/32            | 7                 | 0.117              | 500             |
| TBC-SS043   | 1 5/8 - 1 13/16   | 25/32            | 7                 | 0.121              | 500             |
| TBC-SS047   | 1 3/4 - 1 15/16   | 7/8              | 10                | 0.198              | 200             |
| TBC-SS051   | 1 7/8 - 2 1/16    | 7/8              | 10                | 0.209              | 200             |
| TBC-SS055   | 2 1/8 - 2 5/16    | 7/8              | 10                | 0.216              | 200             |
| TBC-SS059   | 2 1/4 - 2 7/16    | 7/8              | 10                | 0.221              | 200             |
| TBC-SS063   | 2 3/8 - 2 9/16    | 7/8              | 10                | 0.227              | 200             |
| TBC-SS067   | 2 17/32 - 2 13/16 | 7/8              | 10                | 0.232              | 200             |
| TBC-SS073   | 2 21/32 - 2 15/16 | 15/16            | 17                | 0.331              | 100             |
| TBC-SS079   | 2 29/32 - 3 3/16  | 15/16            | 17                | 0.353              | 100             |
| TBC-SS085   | 3 1/32 - 3 5/16   | 15/16            | 17                | 0.353              | 100             |
| TBC-SS091   | 3 9/32 - 3 9/16   | 15/16            | 17                | 0.364              | 100             |
| TBC-SS097   | 3 17/32 - 3 13/16 | 15/16            | 17                | 0.397              | 100             |
| TBC-SS103   | 3 25/32 - 4 1/16  | 15/16            | 17                | 0.397              | 100             |
| TBC-SS112   | 4 1/32 - 4 5/16   | 15/16            | 17                | 0.419              | 100             |
| TBC-SS121   | 4 17/32 - 4 13/16 | 15/16            | 17                | 0.430              | 100             |
| TBC-SS130   | 4 25/32 - 5 1/16  | 15/16            | 17                | 0.441              | 100             |
| TBC-SS139   | 5 9/32 - 5 9/16   | 1 1/32           | 29                | 0.644              | 60              |
| TBC-SS148   | 5 17/32 - 5 13/16 | 1 1/32           | 29                | 0.679              | 60              |
| TBC-SS161   | 5 7/8 - 6 11/32   | 1 1/32           | 29                | 0.703              | 80              |
| TBC-SS174   | 6 17/32 - 6 13/16 | 1 1/32           | 29                | 0.723              | 80              |
| TBC-SS187   | 6 7/8 - 7 3/8     | 1 1/32           | 29                | 0.750              | 60              |
| TBC-SS200   | 7 13/32 - 7 7/8   | 1 1/32           | 29                | 0.787              | 60              |
| TBC-SS213   | 7 29/32 - 8 3/8   | 1 1/32           | 29                | 0.809              | 60              |
| TBC-SS226   | 8 21/32 - 8 15/16 | 1 1/32           | 29                | 0.844              | 60              |
| TBC-SS239   | 8 15/16 - 9 13/32 | 1 1/32           | 29                | 0.882              | 60              |
| TBC-SS252   | 9 7/16 - 9 29/32  | 1 1/32           | 29                | 0.919              | 60              |

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## T-Bolt Clamps



**Heavy Duty T-Bolt Clamp**  
**304 Stainless Steel Band, Carbon Steel Bolt and Nut**

| Part Number | Size Range (in.)  | Band Width (in.) | Torque (ft. lbs.) | Weight Each (lbs.) | Standard Carton |
|-------------|-------------------|------------------|-------------------|--------------------|-----------------|
| TBC-SSC019  | 21/32 - 3/4       | 23/32            | 6                 | 0.064              | 500             |
| TBC-SSC022  | 25/32 - 7/8       | 23/32            | 6                 | 0.066              | 500             |
| TBC-SSC025  | 29/32 - 1         | 23/32            | 6                 | 0.068              | 500             |
| TBC-SSC028  | 1 1/32 - 1 3/32   | 23/32            | 6                 | 0.068              | 500             |
| TBC-SSC031  | 1 5/32 - 1 5/16   | 25/32            | 7                 | 0.115              | 500             |
| TBC-SSC035  | 1 1/4 - 1 3/8     | 25/32            | 7                 | 0.115              | 500             |
| TBC-SSC039  | 1 3/8 - 1 9/16    | 25/32            | 7                 | 0.117              | 500             |
| TBC-SSC043  | 1 5/8 - 1 13/16   | 25/32            | 7                 | 0.121              | 500             |
| TBC-SSC047  | 1 3/4 - 1 15/16   | 7/8              | 10                | 0.198              | 200             |
| TBC-SSC051  | 1 7/8 - 2 1/16    | 7/8              | 10                | 0.209              | 200             |
| TBC-SSC055  | 2 1/8 - 2 5/16    | 7/8              | 10                | 0.216              | 200             |
| TBC-SSC059  | 2 1/4 - 2 7/16    | 7/8              | 10                | 0.221              | 200             |
| TBC-SSC063  | 2 3/8 - 2 9/16    | 7/8              | 10                | 0.227              | 200             |
| TBC-SSC067  | 2 17/32 - 2 13/16 | 7/8              | 10                | 0.232              | 200             |
| TBC-SSC073  | 2 21/32 - 2 15/16 | 15/16            | 17                | 0.331              | 100             |
| TBC-SSC079  | 2 29/32 - 3 3/16  | 15/16            | 17                | 0.353              | 100             |
| TBC-SSC085  | 3 1/32 - 3 5/16   | 15/16            | 17                | 0.353              | 100             |
| TBC-SSC091  | 3 9/32 - 3 9/16   | 15/16            | 17                | 0.364              | 100             |
| TBC-SSC097  | 3 17/32 - 3 13/16 | 15/16            | 17                | 0.397              | 100             |
| TBC-SSC103  | 3 25/32 - 4 1/16  | 15/16            | 17                | 0.397              | 100             |
| TBC-SSC112  | 4 1/32 - 4 5/16   | 15/16            | 17                | 0.419              | 100             |
| TBC-SSC121  | 4 17/32 - 4 13/16 | 15/16            | 17                | 0.430              | 100             |
| TBC-SSC130  | 4 25/32 - 5 1/16  | 15/16            | 17                | 0.441              | 100             |
| TBC-SSC139  | 5 9/32 - 5 9/16   | 1 1/32           | 29                | 0.644              | 60              |
| TBC-SSC148  | 5 17/32 - 5 13/16 | 1 1/32           | 29                | 0.679              | 60              |
| TBC-SSC161  | 5 7/8 - 6 11/32   | 1 1/32           | 29                | 0.703              | 80              |
| TBC-SSC174  | 6 17/32 - 6 13/16 | 1 1/32           | 29                | 0.723              | 80              |
| TBC-SSC187  | 6 7/8 - 7 3/8     | 1 1/32           | 29                | 0.750              | 60              |
| TBC-SSC200  | 7 13/32 - 7 7/8   | 1 1/32           | 29                | 0.787              | 60              |
| TBC-SSC213  | 7 29/32 - 8 3/8   | 1 1/32           | 29                | 0.809              | 60              |
| TBC-SSC226  | 8 21/32 - 8 15/16 | 1 1/32           | 29                | 0.844              | 60              |
| TBC-SSC239  | 8 15/16 - 9 13/32 | 1 1/32           | 29                | 0.882              | 60              |
| TBC-SSC252  | 9 7/16 - 9 29/32  | 1 1/32           | 29                | 0.919              | 60              |

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## Interlocking Bolt Clamps



**2 Bolt Hose Clamp**

(Recommended for use with Universal Couplings)

| Part Number | Size Range (in.)  | Weight Each (lbs.) | Torque (ft. lbs.) | Standard Carton |
|-------------|-------------------|--------------------|-------------------|-----------------|
| HC-50       | 1 - 1 1/8         | 0.32               | 6                 | 25              |
| HC-75       | 1 1/8 - 1 5/16    | 0.56               | 12                | 25              |
| HC-100      | 1 17/32 - 1 21/32 | 0.72               | 21                | 25              |



**2 Bolt Hose Clamp**

(Recommended for use with Ground Joint Couplings)

| Part Number | Size Range (in.) | Weight Each (lbs.) | Torque (ft. lbs.) | Standard Carton |
|-------------|------------------|--------------------|-------------------|-----------------|
| BC2-050     | 13/16 - 15/16    | 0.31               | 6                 | 100             |
| BC2-050A    | 15/16 - 1 1/16   | 0.44               | 12                | 100             |
| BC2-050B    | 1 1/16 - 1 3/16  | 0.48               | 12                | 100             |
| BC2-075     | 1 5/32 - 1 9/32  | 0.73               | 21                | 60              |
| BC2-075A    | 1 3/16 - 1 5/16  | 0.79               | 21                | 60              |
| BC2-075B    | 1 5/16 - 1 1/2   | 0.88               | 21                | 60              |
| BC2-075C    | 1 1/2 - 1 11/16  | 1.15               | 21                | 40              |



**4 Bolt Hose Clamp**

(Recommended for use with Ground Joint Couplings)

| Part Number | Size Range (in.)  | Weight Each (lbs.) | Torque (ft. lbs.) | Standard Carton |
|-------------|-------------------|--------------------|-------------------|-----------------|
| BC4-100     | 1 17/32 - 1 23/32 | 1.50               | 21                | 24              |
| BC4-100A    | 1 13/32 - 1 9/16  | 1.54               | 21                | 24              |
| BC4-100B    | 1 11/16 - 1 27/32 | 1.68               | 21                | 24              |
| BC4-100C    | 1 7/8 - 2 1/16    | 1.90               | 21                | 20              |
| BC4-125     | 2 1/16 - 2 1/4    | 2.36               | 40                | 20              |
| BC4-150     | 2 - 2 17/32       | 2.40               | 40                | 20              |
| BC4-150A    | 2 3/32 - 2 9/32   | 2.56               | 40                | 20              |
| BC4-150B    | 2 1/4 - 2 7/16    | 2.78               | 40                | 20              |
| BC4-150C    | 2 15/32 - 2 23/32 | 2.67               | 40                | 20              |
| BC4-200     | 2 11/32 - 2 17/32 | 3.04               | 60                | 20              |
| BC4-200A    | 2 1/2 - 2 25/32   | 2.84               | 60                | 20              |
| BC4-200B    | 2 3/4 - 3 1/16    | 3.99               | 60                | 16              |
| BC4-200C    | 3 3/32 - 3 7/16   | 3.97               | 60                | 14              |
| BC4-250     | 3 1/2 - 3 15/16   | 6.86               | 150               | 5               |
| BC4-300     | 3 1/2 - 3 15/16   | 7.45               | 150               | 5               |
| BC4-300A    | 3 13/16 - 4 1/16  | 7.89               | 150               | 5               |
| BC4-300B    | 4 1/16 - 4 7/16   | 10.19              | 200               | 4               |
| BC4-300C    | 4 1/4 - 4 13/16   | 10.30              | 200               | 4               |



**6 Bolt Hose Clamp**

(Recommended for use with Ground Joint Couplings)

| Part Number | Size Range (in.) | Weight Each (lbs.) | Torque (ft. lbs.) | Standard Carton |
|-------------|------------------|--------------------|-------------------|-----------------|
| BC6-300A    | 4 1/4 - 4 13/16  | 12.32              | 150               | 4               |
| BC6-400A    | 4 7/8 - 5 5/16   | 20.30              | 200               | 2               |
| BC6-400B    | 5 1/8 - 6 3/16   | 21.45              | 200               | 2               |





## Kuri-Krimp™ Crimp Sleeves

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**NEW  
SIZES**



**Kuri-Krimp™ Plated Steel Crimp Sleeve**

| Part Number    | Hose ID (in.) | Sleeve ID (in.) | Wall Thickness (in.) | Length (in.) | Weight Each (lbs.) | Standard Carton |
|----------------|---------------|-----------------|----------------------|--------------|--------------------|-----------------|
| CRS-CS10108    | 1             | 1.50            | 0.059                | 2.29         | 0.19               | 200             |
| CRS-CS10109    | 1             | 1.56            | 0.059                | 2.29         | 0.20               | 200             |
| CRS-CS15200    | 1 1/2         | 2.00            | 0.059                | 2.36         | 0.25               | 128             |
| CRS-CS15202    | 1 1/2         | 2.12            | 0.059                | 2.36         | 0.26               | 128             |
| CRS-CS20209    | 2             | 2.56            | 0.059                | 2.79         | 0.37               | 80              |
| CRS-CS20210    | 2             | 2.62            | 0.059                | 2.79         | 0.40               | 80              |
| CRS-CS20211    | 2             | 2.68            | 0.059                | 2.79         | 0.40               | 80              |
| CRS-CS25302    | 2 1/2         | 3.12            | 0.059                | 3.11         | 0.52               | 60              |
| CRS-CS25304    | 2 1/2         | 3.25            | 0.059                | 3.11         | 0.54               | 60              |
| CRS-CS30310    | 3             | 3.62            | 0.091                | 3.94         | 1.19               | 40              |
| CRS-CS30312    | 3             | 3.75            | 0.091                | 3.94         | 1.21               | 40              |
| CRS-CS30313    | 3             | 3.81            | 0.091                | 3.94         | 1.23               | 40              |
| CRS-CS30400    | 3             | 4.00            | 0.091                | 3.94         | 1.30               | 40              |
| CRS-CS40411    | 4             | 4.68            | 0.091                | 4.19         | 1.61               | 30              |
| CRS-CS40412    | 4             | 4.75            | 0.091                | 4.19         | 1.63               | 30              |
| CRS-CS40413    | 4             | 4.81            | 0.091                | 4.19         | 1.65               | 30              |
| CRS-CS40500    | 4             | 5.00            | 0.091                | 4.19         | 1.72               | 30              |
| CRS-CS60610    | 6             | 6.63            | 0.118                | 5.67         | 4.02               | 8               |
| CRS-CS60612    | 6             | 6.75            | 0.118                | 5.67         | 4.10               | 8               |
| CRS-CS60614    | 6             | 6.88            | 0.118                | 5.67         | 4.17               | 8               |
| CRS-CS60700    | 6             | 7.00            | 0.118                | 5.67         | 4.24               | 8               |
| CRS-CS60704    | 6             | 7.25            | 0.118                | 5.67         | 4.39               | 8               |
| CRS-CS60706    | 6             | 7.38            | 0.118                | 5.67         | 4.47               | 8               |
| CRS-CS80812    | 8             | 8.75            | 0.118                | 6.50         | 6.06               | 8               |
| CRS-CS80814    | 8             | 8.88            | 0.118                | 6.50         | 6.15               | 8               |
| CRS-CS80900    | 8             | 9.00            | 0.118                | 6.50         | 6.23               | 8               |
| CRS-CS80902    | 8             | 9.13            | 0.118                | 6.50         | 6.32               | 8               |
| CRS-CS80904    | 8             | 9.25            | 0.118                | 6.50         | 6.41               | 8               |
| CRS-CS80908    | 8             | 9.50            | 0.118                | 6.50         | 6.58               | 8               |
| *CRS-CS1001012 | 10            | 10.75           | 0.120                | 6.50         | 7.42               | 2               |
| *CRS-CS1001100 | 10            | 11.00           | 0.120                | 6.50         | 7.60               | 2               |
| *CRS-CS1001104 | 10            | 11.25           | 0.120                | 6.50         | 7.78               | 2               |
| *CRS-CS1201212 | 12            | 12.75           | 0.120                | 9.00         | 12.18              | 1               |
| *CRS-CS1201300 | 12            | 13.00           | 0.120                | 9.00         | 12.40              | 1               |
| *CRS-CS1201304 | 12            | 13.25           | 0.120                | 9.00         | 12.64              | 1               |



**Kuri-Krimp™ 304 Stainless Steel Crimp Sleeve**

| Part Number | Hose ID (in.) | Sleeve ID (in.) | Wall Thickness (in.) | Length (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|---------------|-----------------|----------------------|--------------|--------------------|-----------------|
| CRS-SS10108 | 1             | 1.50            | 0.059                | 2.29         | 0.20               | 200             |
| CRS-SS10109 | 1             | 1.56            | 0.059                | 2.29         | 0.21               | 200             |
| CRS-SS15200 | 1 1/2         | 2.00            | 0.059                | 2.36         | 0.27               | 128             |
| CRS-SS15202 | 1 1/2         | 2.12            | 0.059                | 2.36         | 0.29               | 128             |
| CRS-SS20209 | 2             | 2.56            | 0.059                | 2.79         | 0.40               | 80              |
| CRS-SS20210 | 2             | 2.62            | 0.059                | 2.79         | 0.43               | 80              |
| CRS-SS20211 | 2             | 2.68            | 0.059                | 2.79         | 0.43               | 80              |
| CRS-SS25302 | 2 1/2         | 3.12            | 0.059                | 3.11         | 0.56               | 60              |
| CRS-SS25304 | 2 1/2         | 3.25            | 0.059                | 3.11         | 0.58               | 60              |
| CRS-SS30310 | 3             | 3.62            | 0.098                | 3.94         | 1.29               | 40              |
| CRS-SS30312 | 3             | 3.75            | 0.098                | 3.94         | 1.31               | 40              |
| CRS-SS30313 | 3             | 3.81            | 0.098                | 3.94         | 1.33               | 40              |
| CRS-SS30400 | 3             | 4.00            | 0.098                | 3.94         | 1.40               | 40              |
| CRS-SS40411 | 4             | 4.68            | 0.098                | 4.19         | 1.74               | 30              |
| CRS-SS40412 | 4             | 4.75            | 0.098                | 4.19         | 1.76               | 30              |
| CRS-SS40413 | 4             | 4.81            | 0.098                | 4.19         | 1.78               | 30              |
| CRS-SS40500 | 4             | 5.00            | 0.098                | 4.19         | 1.86               | 30              |



**Kuri-Krimp™ Aluminum Crimp Sleeve**

| Part Number | Hose ID (in.) | Sleeve ID (in.) | Wall Thickness (in.) | Length (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|---------------|-----------------|----------------------|--------------|--------------------|-----------------|
| CRS-AL20209 | 2             | 2.56            | 0.079                | 2.79         | 0.18               | 100             |
| CRS-AL20210 | 2             | 2.63            | 0.079                | 2.79         | 0.18               | 100             |
| CRS-AL20211 | 2             | 2.69            | 0.079                | 2.79         | 0.19               | 100             |
| CRS-AL30310 | 3             | 3.63            | 0.079                | 3.94         | 0.35               | 36              |
| CRS-AL30312 | 3             | 3.75            | 0.079                | 3.94         | 0.36               | 36              |
| CRS-AL30313 | 3             | 3.81            | 0.079                | 3.94         | 0.37               | 36              |
| CRS-AL30400 | 3             | 4.00            | 0.079                | 3.94         | 0.39               | 36              |
| CRS-AL40411 | 4             | 4.69            | 0.098                | 4.19         | 0.60               | 36              |
| CRS-AL40412 | 4             | 4.75            | 0.098                | 4.19         | 0.61               | 36              |
| CRS-AL40413 | 4             | 4.81            | 0.098                | 4.19         | 0.62               | 36              |
| CRS-AL40500 | 4             | 5.00            | 0.098                | 4.19         | 0.64               | 36              |

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## Hydrant & Garden Hose Wrenches / Fittings / Adapters



**Female to Male Hex Nipple**

| Part Number   | Size (in.)             | Weight Each (lbs.) | Standard Carton |
|---------------|------------------------|--------------------|-----------------|
| FMHN-12GH16PT | 3/4 GHT x 1 NPT        | 0.25               | 200             |
| FMHN-16PT12GH | 1 NPT x 3/4 GHT        | 0.26               | 100             |
| FMHN-24PT24SH | 1 1/2 NPT x 1 1/2 NPSH | 0.51               | 100             |
| FMHN-40PT40SH | 2 1/2 NPT x 2 1/2 NPSH | 1.33               | 20              |
| FMHN-24PT24ST | 1 1/2 NPT x 1 1/2 NST  | 0.53               | 100             |
| FMHN-40PT40ST | 2 1/2 NPT x 2 1/2 NST  | 1.20               | 25              |
| FMHN-48PT40ST | 3 NPT x 2 1/2 NST      | 2.92               | 20              |
| FMHN-16SH12GH | 1 NPSH x 3/4 GHT       | 0.25               | 100             |
| FMHN-24SH24PT | 1 1/2 NPSH x 1 1/2 NPT | 0.49               | 100             |
| FMHN-24SH24ST | 1 1/2 NPSH x 1 1/2 NST | 0.55               | 100             |
| FMHN-40SH40ST | 2 1/2 NPSH x 2 1/2 NST | 1.20               | 25              |
| FMHN-24ST24PT | 1 1/2 NST x 1 1/2 NPT  | 0.44               | 100             |
| FMHN-24ST24SH | 1 1/2 NST x 1 1/2 NPSH | 0.49               | 100             |
| FMHN-40ST32PT | 2 1/2 NST x 2 NPT      | 2.29               | 30              |
| FMHN-40ST40PT | 2 1/2 NST x 2 1/2 NPT  | 1.76               | 20              |
| FMHN-40ST48PT | 2 1/2 NST x 3 NPT      | 2.43               | 20              |
| FMHN-40ST40SH | 2 1/2 NST x 2 1/2 NPSH | 1.59               | 20              |
| FMHN-40ST48ST | 2 1/2 NST x 3 NST      | 2.43               | 20              |
| FMHN-48ST40ST | 3 NST x 2 1/2 NST      | 2.87               | 20              |



**Brass Hydrant Adapter**

| Part Number   | Size (in.)             | Weight Each (lbs.) | Standard Carton |
|---------------|------------------------|--------------------|-----------------|
| BHYA-24ST12GH | 1 1/2 NST x 3/4 GHT    | 0.52               | 100             |
| BHYA-40ST12GH | 2 1/2 NST x 3/4 GHT    | 1.16               | 50              |
| BHYA-40ST16SH | 2 1/2 NST x 1 NPSH     | 1.03               | 50              |
| BHYA-40ST24SH | 2 1/2 NST x 1 1/2 NPSH | 1.00               | 40              |
| BHYA-40ST32SH | 2 1/2 NST x 2 NPSH     | 1.07               | 40              |
| BHYA-24ST24PT | 1 1/2 NST x 1 1/2 NPT  | 0.60               | 100             |
| BHYA-40ST12PT | 2 1/2 NST x 3/4 NPT    | 0.90               | 50              |
| BHYA-40ST16PT | 2 1/2 NST x 1 NPT      | 1.02               | 50              |
| BHYA-40ST24PT | 2 1/2 NST x 1 1/2 NPT  | 0.91               | 40              |
| BHYA-40ST32PT | 2 1/2 NST x 2 NPT      | 1.11               | 40              |
| BHYA-40ST24ST | 2 1/2 NST x 1 1/2 NST  | 0.98               | 40              |
| BHYA-48ST40ST | 3 NST x 2 1/2 NST      | 1.72               | 20              |
| BHYA-24SH24ST | 1 1/2 NPSH x 1 1/2 NST | 0.60               | 100             |
| BHYA-48SH40ST | 3 NPSH x 2 1/2 NST     | 1.42               | 20              |
| BHYA-24SH24PT | 1 1/2 NPSH x 1 1/2 NPT | 0.60               | 100             |



**Brass Cap with Chain**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BCAP-24SH   | 1 1/2 NPSH | 0.55               | 100             |
| BCAP-24ST   | 1 1/2 NST  | 0.53               | 100             |
| BCAP-40SH   | 2 1/2 NPSH | 1.41               | 50              |
| BCAP-40ST   | 2 1/2 NST  | 1.32               | 50              |



**Double Male Hex Nipple**

| Part Number   | Size (in.)             | Weight Each (lbs.) | Standard Carton |
|---------------|------------------------|--------------------|-----------------|
| DMHN-16PT12GH | 1 NPT x 3/4 GHT        | 0.26               | 200             |
| DMHN-16PT16SH | 1 NPT x 1 NPSH         | 0.33               | 100             |
| DMHN-24PT24SH | 1 1/2 NPT x 1 1/2 NPSH | 0.52               | 100             |
| DMHN-32PT32SH | 2 NPT x 2 NPSH         | 1.25               | 50              |
| DMHN-40PT40SH | 2 1/2 NPT x 2 1/2 NPSH | 1.03               | 25              |
| DMHN-16PT16ST | 1 NPT x 1 NST          | 0.51               | 100             |
| DMHN-24PT24ST | 1 1/2 NPT x 1 1/2 NST  | 0.48               | 100             |
| DMHN-32PT40ST | 2 NPT x 2 1/2 NST      | 1.34               | 30              |
| DMHN-40PT40ST | 2 1/2 NPT x 2 1/2 NST  | 1.26               | 25              |
| DMHN-48PT40ST | 3 NPT x 2 1/2 NST      | 2.14               | 20              |
| DMHN-24ST24ST | 1 1/2 NST x 1 1/2 NST  | 0.52               | 100             |
| DMHN-48ST40ST | 3 NST x 2 1/2 NST      | 2.51               | 20              |
| DMHN-24ST24SH | 1 1/2 NST x 1 1/2 NPSH | 0.49               | 100             |

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## Hydrant & Garden Hose Wrenches / Fittings / Adapters



**Brass Hose Nozzle**

| Part Number | Size (in.)      | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|-----------------|
| BHN-1206GH  | 3/4 GHT x 6     | 0.37               | 100             |
| BHN-1206SH  | 3/4 NPSH x 6    | 0.37               | 100             |
| BHN-1608SH  | 1 NPSH x 8      | 0.68               | 50              |
| BHN-2010SH  | 1 1/4 NPSH x 10 | 1.23               | 30              |
| BHN-2410SH  | 1 1/2 NPSH x 10 | 1.32               | 30              |
| BHN-2410ST  | 1 1/2 NST x 10  | 1.32               | 30              |
| BHN-3212SH  | 2 NPSH x 12     | 2.09               | 20              |
| BHN-4012SH  | 2 1/2 NPSH x 12 | 2.87               | 20              |
| BHN-4012ST  | 2 1/2 NST x 12  | 2.87               | 15              |



**Spanner Wrench**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SW150       | 1 1/2      | 0.44               | 100             |
| SW200       | 2          | 0.60               | 100             |
| SW250       | 2 1/2      | 0.68               | 50              |
| SW300       | 3          | 0.99               | 50              |
| SW400       | 4          | 1.30               | 40              |



**Garden Hose Fitting Set**

| Part Number | Size (in.) | Thread | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------|--------------------|-----------------|
| BRGHT050    | 1/2        | GHT    | 0.25               | 180             |
| BRGHT062    | 5/8        | GHT    | 0.25               | 180             |
| BRGHT075    | 3/4        | GHT    | 0.25               | 180             |
| BRNPS100    | 1          | NPS    | 0.49               | 120             |



**Universal Spanner Wrench**

| Part Number | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------------|--------------------|-----------------|
| SWU         | 1 1/2 - 4 1/2    | 1.59               | 30              |



**Female Garden Hose Fitting**

| Part Number  | Size (in.) | Thread | Weight Each (lbs.) | Standard Carton |
|--------------|------------|--------|--------------------|-----------------|
| BRGHT-FEM050 | 1/2        | GHT    | 0.12               | 360             |
| BRGHT-FEM062 | 5/8        | GHT    | 0.12               | 360             |
| BRGHT-FEM075 | 3/4        | GHT    | 0.12               | 360             |
| BRNPS-FEM100 | 1          | NPS    | 0.25               | 240             |



**Adjustable Hydrant Wrench**

| Part Number | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------------|--------------------|-----------------|
| SWLA        | 1 1/2 - 3        | 2.91               | 12              |



**Heavy Duty Adjustable Hydrant Wrench**

| Part Number | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------------|--------------------|-----------------|
| SWHA        | 1 1/2 - 6        | 4.67               | 12              |

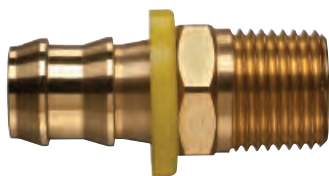
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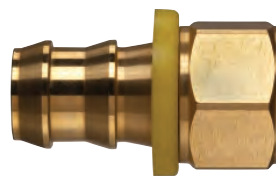


## Brass Push-On Fittings



**Male Pipe (NPTF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFMP-0402  | 1/4             | 1/8                | 1/8 - 27         | 0.031              | 100             |
| POFMP-0404  | 1/4             | 1/4                | 1/4 - 18         | 0.044              | 100             |
| POFMP-0406  | 1/4             | 3/8                | 3/8 - 18         | 0.055              | 50              |
| POFMP-0604  | 3/8             | 1/4                | 1/4 - 18         | 0.053              | 50              |
| POFMP-0606  | 3/8             | 3/8                | 3/8 - 18         | 0.071              | 50              |
| POFMP-0608  | 3/8             | 1/2                | 1/2 - 14         | 0.119              | 25              |
| POFMP-0808  | 1/2             | 1/2                | 1/2 - 14         | 0.121              | 25              |
| POFMP-1008  | 5/8             | 1/2                | 1/2 - 14         | 0.143              | 25              |
| POFMP-1012  | 5/8             | 3/4                | 3/4 - 14         | 0.190              | 25              |
| POFMP-1208  | 3/4             | 1/2                | 1/2 - 14         | 1.960              | 25              |
| POFMP-1212  | 3/4             | 3/4                | 3/4 - 14         | 1.940              | 25              |



**Female Pipe (NPTF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFFP-0402  | 1/4             | 1/8                | 1/8 - 27         | 0.029              | 100             |
| POFFP-0404  | 1/4             | 1/4                | 1/4 - 18         | 0.049              | 100             |
| POFFP-0604  | 3/8             | 1/4                | 1/4 - 18         | 0.055              | 50              |
| POFFP-0606  | 3/8             | 3/8                | 3/8 - 18         | 0.064              | 50              |
| POFFP-0806  | 1/2             | 3/8                | 3/8 - 18         | 0.077              | 50              |
| POFFP-0808  | 1/2             | 1/2                | 1/2 - 14         | 0.099              | 25              |
| POFFP-1008  | 5/8             | 1/2                | 1/2 - 14         | 0.119              | 25              |
| POFFP-1212  | 3/4             | 3/4                | 3/4 - 14         | 0.234              | 25              |



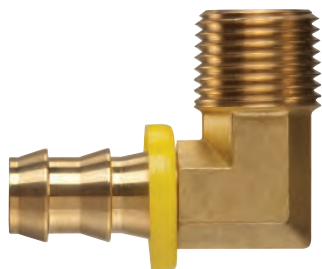
**Male Pipe Swivel (NPTF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFMPS-0404 | 1/4             | 1/4                | 1/4 - 18         | 0.062              | 50              |
| POFMPS-0606 | 3/8             | 3/8                | 3/8 - 18         | 0.090              | 25              |
| POFMPS-0808 | 1/2             | 1/2                | 1/2 - 14         | 0.143              | 25              |
| POFMPS-1212 | 3/4             | 3/4                | 3/4 - 14         | 0.249              | 25              |



**Female Pipe Swivel (NPTF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFFPS-0404 | 1/4             | 1/4                | 1/4 - 18         | 0.060              | 50              |
| POFFPS-0606 | 3/8             | 3/8                | 3/8 - 18         | 0.093              | 50              |
| POFFPS-0808 | 1/2             | 1/2                | 1/2 - 14         | 0.117              | 50              |
| POFFPS-1212 | 3/4             | 3/4                | 3/4 - 14         | 0.214              | 25              |



**Male Pipe 90 Degree Elbow (NPTF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFMPE-0404 | 1/4             | 1/4                | 1/4 - 18         | 0.062              | 50              |
| POFMPE-0606 | 3/8             | 3/8                | 3/8 - 18         | 0.088              | 25              |
| POFMPE-0808 | 1/2             | 1/2                | 1/2 - 14         | 0.165              | 25              |
| POFMPE-1212 | 3/4             | 3/4                | 3/4 - 14         | 0.293              | 25              |



**Hose Mender**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| POFMD-0404  | 1/4        | 0.026              | 100             |
| POFMD-0606  | 3/8        | 0.046              | 50              |
| POFMD-0808  | 1/2        | 0.073              | 50              |
| POFMD-1010  | 5/8        | 0.130              | 25              |
| POFMD-1212  | 3/4        | 0.159              | 25              |

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## Brass Push-On Fittings



**Male JIC 37 Degree Flare (UNF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFMJS-0404 | 1/4             | 1/4                | 7/16 - 20        | 0.035              | 100             |
| POFMJS-0406 | 1/4             | 3/8                | 9/16 - 18        | 0.053              | 100             |
| POFMJS-0606 | 3/8             | 3/8                | 9/16 - 18        | 0.060              | 50              |
| POFMJS-0808 | 1/2             | 1/2                | 3/4 - 16         | 0.121              | 50              |
| POFMJS-1212 | 3/4             | 3/4                | 1 1/16 - 12      | 0.291              | 25              |



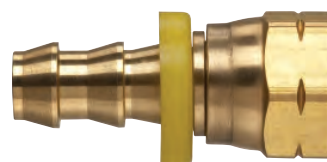
**Female JIC 37 Degree Swivel (UNF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFFJS-0606 | 3/8             | 3/8                | 9/16 - 18        | 0.064              | 50              |
| POFFJS-1212 | 3/4             | 3/4                | 1 1/16 - 12      | 0.220              | 25              |



**Male SAE 45 Degree Flare (UNF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFMSA-0404 | 1/4             | 1/4                | 7/16 - 20        | 0.029              | 100             |
| POFMSA-0606 | 3/8             | 3/8                | 9/16 - 18        | 0.071              | 50              |
| POFMSA-0808 | 1/2             | 1/2                | 3/4 - 16         | 0.112              | 50              |
| POFMSA-1212 | 3/4             | 3/4                | 1 1/16 - 12      | 0.324              | 25              |



**Female SAE 45 Degree Swivel (UNF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFFSA-0606 | 3/8             | 3/8                | 9/16 - 18        | 0.071              | 100             |
| POFFSA-1212 | 3/4             | 3/4                | 1 1/16 - 12      | 0.262              | 25              |



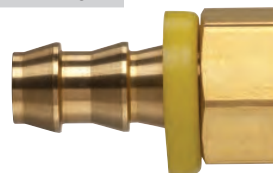
**Female JIC 37 Degree/SAE 45 Degree Swivel (Dual Angle Seat) (UNF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFFJS-0404 | 1/4             | 1/4                | 7/16 - 20        | 0.040              | 100             |
| POFFJS-0808 | 1/2             | 1/2                | 3/4 - 16         | 0.097              | 25              |
| POFFJS-0810 | 1/2             | 5/8                | 7/8 - 14         | 0.130              | 25              |
| POFFJS-1010 | 5/8             | 5/8                | 7/8 - 14         | 0.172              | 25              |



**Male Inverted Flare (UNF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFMIV-0404 | 1/4             | 1/4                | 7/16 - 24        | 0.031              | 100             |
| POFMIV-0405 | 1/4             | 5/16               | 1/2 - 20         | 0.037              | 100             |
| POFMIV-0606 | 3/8             | 3/8                | 5/8 - 18         | 0.071              | 100             |
| POFMIV-0808 | 1/2             | 1/2                | 3/4 - 16         | 0.106              | 50              |
| POFMIV-1010 | 5/8             | 5/8                | 7/8 - 14         | 0.148              | 25              |



**Female Inverted Flare (UNF Threads)**

| Part Number | Hose Size (in.) | Fitting Size (in.) | Thread (in.-TPI) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|--------------------|------------------|--------------------|-----------------|
| POFFIV-0404 | 1/4             | 1/4                | 7/16 - 24        | 0.024              | 100             |
| POFFIV-0405 | 1/4             | 5/16               | 1/2 - 20         | 0.026              | 100             |
| POFFIV-0606 | 3/8             | 3/8                | 5/8 - 18         | 0.053              | 50              |
| POFFIV-0808 | 1/2             | 1/2                | 3/4 - 16         | 0.079              | 25              |

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## Quick Disconnect Couplings



**Coupler with Female Thread (NPTF)**

| Part Number | Body Size (in.) | Thread Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|-------------------|--------------------|-----------------|
| QDAC-4FC    | 1/4             | 1/4               | 0.23               | 10              |
| QDAC-6FC    | 1/4             | 3/8               | 0.23               | 10              |



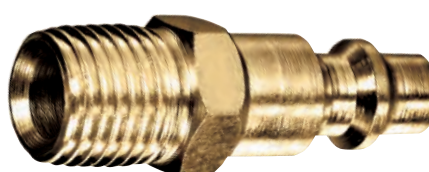
**Plug with Female Thread (NPTF)**

| Part Number | Body Size (in.) | Thread Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|-------------------|--------------------|-----------------|
| QDAP-4FP    | 1/4             | 1/4               | 0.05               | 10              |
| QDAP-6FP    | 1/4             | 3/8               | 0.05               | 10              |



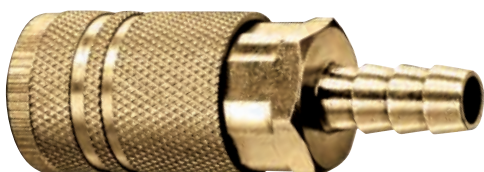
**Coupler with Male Thread (NPTF)**

| Part Number | Body Size (in.) | Thread Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|-------------------|--------------------|-----------------|
| QDAC-4MC    | 1/4             | 1/4               | 0.23               | 10              |
| QDAC-6MC    | 1/4             | 3/8               | 0.23               | 10              |



**Plug with Male Thread (NPTF)**

| Part Number | Body Size (in.) | Thread Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|-------------------|--------------------|-----------------|
| QDAP-4MP    | 1/4             | 1/4               | 0.05               | 10              |
| QDAP-6MP    | 1/4             | 3/8               | 0.05               | 10              |



**Coupler with Hose Barb**

| Part Number | Body Size (in.) | Barb Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|-----------------|--------------------|-----------------|
| QDAC-4HC    | 1/4             | 1/4             | 0.23               | 10              |
| QDAC-6HC    | 1/4             | 3/8             | 0.23               | 10              |



**Plug with Hose Barb**

| Part Number | Body Size (in.) | Barb Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|-----------------|-----------------|--------------------|-----------------|
| QDAP-4HP    | 1/4             | 1/4             | 0.05               | 10              |
| QDAP-6HP    | 1/4             | 3/8             | 0.05               | 10              |

## Specifications

### Material

Brass

### PSI Rating

300 PSI

### Interchange

Industrial

### Temperature

240°F (+115°C)

### Style

Semi-Automatic

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## Miscellaneous Items



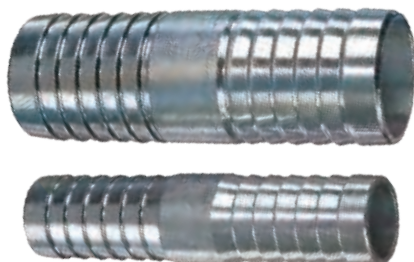
**Hose Safety Cable**  
**Style WC for Hose-to-Hose Service**

| Part Number | Hose ID Range (in.) | Size (in.) | Length (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|---------------------|------------|--------------|--------------------|-----------------|
| WC-1        | 1/2 - 1 1/4         | 1/8        | 24           | 0.24               | 200             |
| WC-2        | 1 1/2 - 3           | 1/4        | 38           | 1.15               | 50              |



**Hose Safety Cable**  
**Style WS for Hose-to-Tool Service**

| Part Number | Hose ID Range (in.) | Size (in.) | Length (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|---------------------|------------|--------------|--------------------|-----------------|
| WS-1        | 1/2 - 1 1/4         | 1/8        | 20           | 0.17               | 200             |
| WS-2        | 1 1/2 - 3           | 1/4        | 38           | 0.95               | 50              |



**Hose Mender**

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| SPHM050     | 1/2        | 0.10               | 100             |
| SPHM062     | 5/8        | 0.10               | 100             |
| SPHM075     | 3/4        | 0.20               | 100             |
| SPHM100     | 1          | 0.30               | 50              |
| SPHM125     | 1 1/4      | 0.50               | 50              |
| SPHM150     | 1 1/2      | 0.50               | 40              |
| SPHM200     | 2          | 0.80               | 35              |
| SPHM250     | 2 1/2      | 1.70               | 20              |
| SPHM300     | 3          | 2.40               | 15              |
| SPHM400     | 4          | 2.90               | 9               |
| SPHM600     | 6          | 13.20              | 4               |
| SPHM800     | 8          | 20.90              | 2               |
| SPHM1000    | 10         | 28.63              | 1               |
| SPHM1200    | 12         | 48.46              | 1               |



**Kuri-Cutter Hose & Tubing Cutter**

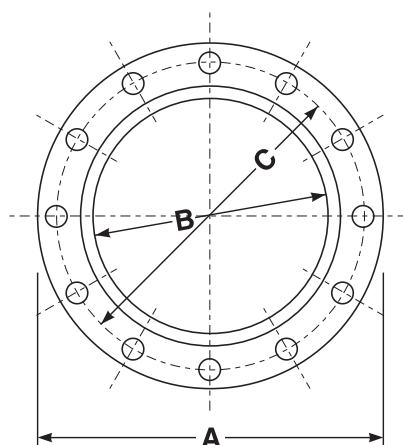
| Part Number | Weight Each (lbs.) | Standard Carton |
|-------------|--------------------|-----------------|
| Kuri-Cutter | 0.27               | 1               |

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## Carbon Steel Forged Plate Style Flanges



**Carbon Steel Forged Plate Flange 150# (ANSI B16.56 & ASTM A-105)**

| Part Number | Size (in.) | OD A (in.) | Bore B | Circle C (in.) | Thickness (in.) | Number Bolt Holes | Diameter Bolt Holes (in.) | Weight Each (lbs.) |
|-------------|------------|------------|--------|----------------|-----------------|-------------------|---------------------------|--------------------|
| CSPF0050    | 1/2        | 3 1/2      | 0.875  | 2 3/8          | 1/2             | 4                 | 5/8                       | 1.12               |
| CSPF0075    | 3/4        | 3 7/8      | 1.100  | 2 3/4          | 1/2             | 4                 | 5/8                       | 1.36               |
| CSPF0100    | 1          | 4 1/4      | 1.360  | 3 1/8          | 1/2             | 4                 | 5/8                       | 1.58               |
| CSPF0125    | 1 1/4      | 4 5/8      | 1.700  | 3 1/2          | 1/2             | 4                 | 5/8                       | 1.93               |
| CSPF0150    | 1 1/2      | 5          | 1.950  | 3 7/8          | 5/8             | 4                 | 5/8                       | 2.70               |
| CSPF0200    | 2          | 6          | 2.440  | 4 3/4          | 5/8             | 4                 | 3/4                       | 4.10               |
| CSPF0250    | 2 1/2      | 7          | 2.940  | 5 1/2          | 5/8             | 4                 | 3/4                       | 5.35               |
| CSPF0300    | 3          | 7 1/2      | 3.570  | 6              | 5/8             | 4                 | 3/4                       | 5.80               |
| CSPF0400    | 4          | 9          | 4.570  | 7 1/2          | 5/8             | 8                 | 3/4                       | 8.00               |
| CSPF0500    | 5          | 10         | 5.660  | 8 1/2          | 3/4             | 8                 | 7/8                       | 10.37              |
| CSPF0600    | 6          | 11         | 6.720  | 9 1/2          | 3/4             | 8                 | 7/8                       | 11.76              |
| CSPF0800    | 8          | 13 1/2     | 8.720  | 11 3/4         | 1               | 8                 | 7/8                       | 22.48              |
| CSPF1000    | 10         | 16         | 10.880 | 14 1/4         | 1               | 12                | 1                         | 26.83              |
| CSPF1200    | 12         | 19         | 12.880 | 17             | 1               | 12                | 1                         | 42.30              |
| CSPF1400    | 14         | 21         | 14.140 | 18 3/4         | 1               | 12                | 1 1/8                     | 52.50              |
| CSPF1600    | 16         | 23 1/2     | 16.160 | 21 1/4         | 1 1/4           | 16                | 1 1/8                     | 64.00              |
| CSPF1800    | 18         | 25 1/8     | 18.150 | 23             | 1 1/4           | 16                | 1 1/4                     | 72.00              |

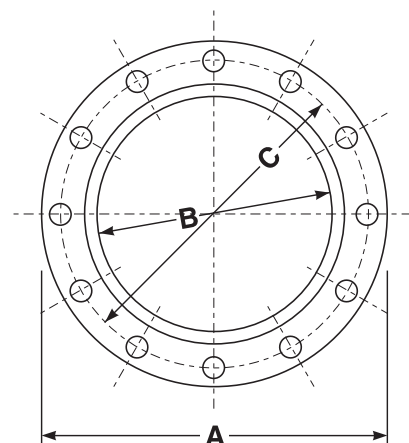
Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.







## Stainless Steel 304 Forged Plate Style Flanges



**Stainless Steel 304 Forged Plate Flange 150# (ANSI B16.56 & ASTM A-105)**

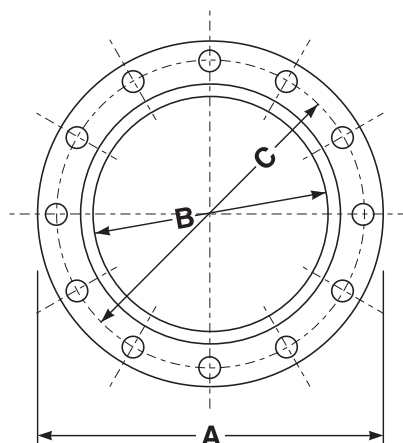
| Part Number | Size (in.) | OD A (in.) | Bore B | Circle C (in.) | Thickness (in.) | Number Bolt Holes | Diameter Bolt Holes (in.) | Weight Each (lbs.) |
|-------------|------------|------------|--------|----------------|-----------------|-------------------|---------------------------|--------------------|
| SSPF3040100 | 1          | 4 1/4      | 1.360  | 3 1/8          | 1/2             | 4                 | 5/8                       | 1.66               |
| SSPF3040125 | 1 1/4      | 4 5/8      | 1.700  | 3 1/2          | 1/2             | 4                 | 5/8                       | 2.00               |
| SSPF3040150 | 1 1/2      | 5          | 1.950  | 3 7/8          | 1/2             | 4                 | 5/8                       | 2.24               |
| SSPF3040200 | 2          | 6          | 2.440  | 4 3/4          | 1/2             | 4                 | 3/4                       | 3.06               |
| SSPF3040250 | 2 1/2      | 7          | 2.940  | 5 1/2          | 1/2             | 4                 | 3/4                       | 4.36               |
| SSPF3040300 | 3          | 7 1/2      | 3.570  | 6              | 1/2             | 4                 | 3/4                       | 4.72               |
| SSPF3040400 | 4          | 9          | 4.570  | 7 1/2          | 1/2             | 8                 | 3/4                       | 6.36               |
| SSPF3040500 | 5          | 10         | 5.660  | 8 1/2          | 1/2             | 8                 | 7/8                       | 7.08               |
| SSPF3040600 | 6          | 11         | 6.720  | 9 1/2          | 1/2             | 8                 | 7/8                       | 7.64               |
| SSPF3040800 | 8          | 13 1/2     | 8.720  | 11 3/4         | 1/2             | 8                 | 7/8                       | 11.44              |
| SSPF3041000 | 10         | 16         | 10.880 | 14 1/4         | 1/2             | 12                | 1                         | 13.36              |
| SSPF3041200 | 12         | 19         | 12.880 | 17             | 1/2             | 12                | 1                         | 21.00              |
| SSPF3041400 | 14         | 21         | 14.140 | 18 3/4         | 1/2             | 12                | 1 1/8                     | 27.83              |

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## Stainless Steel 316 Forged Plate Style Flanges



**Stainless Steel 316 Forged Plate Flange 150# (ANSI B16.56 & ASTM A-105)**

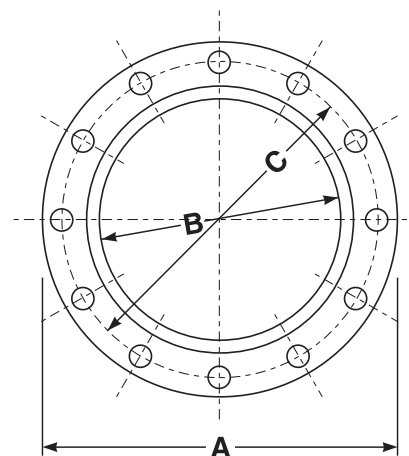
| Part Number | Size (in.) | OD A (in.) | Bore B | Circle C (in.) | Thickness (in.) | Number Bolt Holes | Diameter Bolt Holes (in.) | Weight Each (lbs.) |
|-------------|------------|------------|--------|----------------|-----------------|-------------------|---------------------------|--------------------|
| SSPF3160075 | 3/4        | 3 7/8      | 1.100  | 2 3/4          | 1/2             | 4                 | 5/8                       | 1.36               |
| SSPF3160100 | 1          | 4 1/4      | 1.360  | 3 1/8          | 1/2             | 4                 | 5/8                       | 1.66               |
| SSPF3160125 | 1 1/4      | 4 5/8      | 1.700  | 3 1/2          | 1/2             | 4                 | 5/8                       | 2.00               |
| SSPF3160150 | 1 1/2      | 5          | 1.950  | 3 7/8          | 1/2             | 4                 | 5/8                       | 2.24               |
| SSPF3160200 | 2          | 6          | 2.440  | 4 3/4          | 1/2             | 4                 | 3/4                       | 3.06               |
| SSPF3160250 | 2 1/2      | 7          | 2.940  | 5 1/2          | 1/2             | 4                 | 3/4                       | 4.36               |
| SSPF3160300 | 3          | 7 1/2      | 3.570  | 6              | 1/2             | 4                 | 3/4                       | 4.72               |
| SSPF3160400 | 4          | 9          | 4.570  | 7 1/2          | 1/2             | 8                 | 3/4                       | 6.36               |
| SSPF3160500 | 5          | 10         | 5.660  | 8 1/2          | 1/2             | 8                 | 7/8                       | 7.08               |
| SSPF3160600 | 6          | 11         | 6.720  | 9 1/2          | 1/2             | 8                 | 7/8                       | 7.64               |
| SSPF3160800 | 8          | 13 1/2     | 8.720  | 11 3/4         | 1/2             | 8                 | 7/8                       | 11.44              |
| SSPF3161000 | 10         | 16         | 10.880 | 14 1/4         | 1/2             | 12                | 1                         | 13.36              |
| SSPF3161200 | 12         | 19         | 12.880 | 17             | 1/2             | 12                | 1                         | 21.00              |
| SSPF3161400 | 14         | 21         | 14.140 | 18 3/4         | 1/2             | 12                | 1 1/8                     | 27.83              |
| SSPF3161600 | 16         | 23 1/2     | 16.160 | 21 1/4         | 1/2             | 16                | 1 1/8                     | 30.00              |

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## Carbon Steel Forged Raised Face Slip-on Flanges



**Carbon Steel Forged Raised Face Slip-On Flange 150# (ANSI B16.56 & ASTM A-105)**

| Part Number | Size (in.) | OD A (in.) | Bore B | Circle C (in.) | Thickness (in.) | Number Bolt Holes | Diameter Bolt Holes (in.) | Weight Each (lbs.) |
|-------------|------------|------------|--------|----------------|-----------------|-------------------|---------------------------|--------------------|
| CSRF1500050 | 1/2        | 3 1/2      | 0.875  | 2 3/8          | 5/8             | 4                 | 5/8                       | 1.10               |
| CSRF1500075 | 3/4        | 3 7/8      | 1.100  | 2 3/4          | 5/8             | 4                 | 5/8                       | 1.98               |
| CSRF1500100 | 1          | 4 1/4      | 1.360  | 3 1/8          | 3/4             | 4                 | 5/8                       | 2.18               |
| CSRF1500125 | 1 1/4      | 4 5/8      | 1.700  | 3 1/2          | 7/8             | 4                 | 5/8                       | 3.09               |
| CSRF1500150 | 1 1/2      | 5          | 1.950  | 3 7/8          | 7/8             | 4                 | 5/8                       | 3.60               |
| CSRF1500200 | 2          | 6          | 2.440  | 4 3/4          | 1               | 4                 | 3/4                       | 5.07               |
| CSRF1500250 | 2 1/2      | 7          | 2.940  | 5 1/2          | 1 1/8           | 4                 | 3/4                       | 7.05               |
| CSRF1500300 | 3          | 7 1/2      | 3.570  | 6              | 1 1/4           | 4                 | 3/4                       | 7.94               |
| CSRF1500400 | 4          | 9          | 4.570  | 7 1/2          | 1 3/8           | 8                 | 3/4                       | 13.01              |
| CSRF1500500 | 5          | 10         | 5.660  | 8 1/2          | 1 3/8           | 8                 | 7/8                       | 14.99              |
| CSRF1500600 | 6          | 11         | 6.720  | 9 1/2          | 1 1/2           | 8                 | 7/8                       | 18.74              |
| CSRF1500800 | 8          | 13 1/2     | 8.720  | 11 3/4         | 1 3/4           | 8                 | 7/8                       | 29.98              |
| CSRF1501000 | 10         | 16         | 10.880 | 14 1/4         | 2               | 12                | 1                         | 42.99              |
| CSRF1501200 | 12         | 19         | 12.880 | 17             | 2 1/8           | 12                | 1                         | 63.93              |
| CSRF1501400 | 14         | 21         | 14.140 | 18 3/4         | 2 1/4           | 12                | 1 1/8                     | 90.39              |

**Carbon Steel Forged Raised Face Slip-On Flange 300# (ANSI B16.56 & ASTM A-105)**

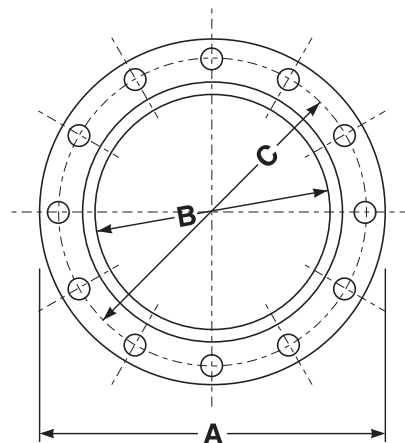
| Part Number | Size (in.) | OD A (in.) | Bore B | Circle C (in.) | Thickness (in.) | Number Bolt Holes | Diameter Bolt Holes (in.) | Weight Each (lbs.) |
|-------------|------------|------------|--------|----------------|-----------------|-------------------|---------------------------|--------------------|
| CSRF3000050 | 1/2        | 3 3/4      | 0.875  | 2 5/8          | 7/8             | 4                 | 5/8                       | 1.92               |
| CSRF3000075 | 3/4        | 4 5/8      | 1.100  | 3 1/4          | 1               | 4                 | 3/4                       | 2.53               |
| CSRF3000100 | 1          | 4 7/8      | 1.360  | 3 1/2          | 1 1/16          | 4                 | 3/4                       | 3.09               |
| CSRF3000125 | 1 1/4      | 5 1/4      | 1.700  | 3 7/8          | 1 1/16          | 4                 | 3/4                       | 3.56               |
| CSRF3000150 | 1 1/2      | 6 1/8      | 1.950  | 4 1/2          | 1 3/16          | 4                 | 7/8                       | 5.01               |
| CSRF3000200 | 2          | 6 1/2      | 2.440  | 5              | 1 5/16          | 8                 | 3/4                       | 7.05               |
| CSRF3000250 | 2 1/2      | 7 1/2      | 2.940  | 5 7/8          | 1 1/2           | 8                 | 7/8                       | 9.92               |
| CSRF3000300 | 3          | 8 1/4      | 3.570  | 6 5/8          | 1 11/16         | 8                 | 7/8                       | 13.01              |
| CSRF3000400 | 4          | 10         | 4.570  | 7 7/8          | 1 7/8           | 8                 | 7/8                       | 22.05              |
| CSRF3000500 | 5          | 11         | 5.660  | 9 1/4          | 2               | 8                 | 7/8                       | 28.00              |
| CSRF3000600 | 6          | 12 1/2     | 6.720  | 10 5/8         | 1 1/16          | 12                | 7/8                       | 39.02              |
| CSRF3000800 | 8          | 15         | 8.720  | 13             | 2 7/16          | 12                | 1                         | 57.98              |

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## Carbon Steel Forged Raised Face Threaded Flanges



**Carbon Steel Forged Raised Face Threaded Flange 150# (ANSI B16.56 & ASTM A-105)**

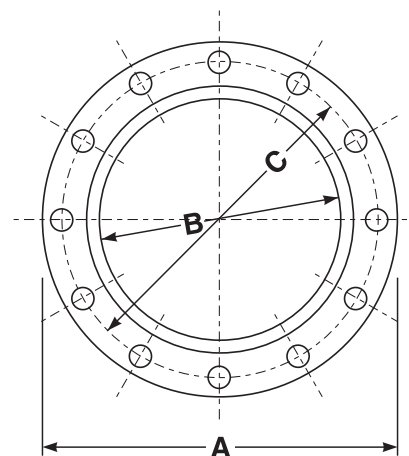
| Part Number    | Size (in.) | OD A (in.) | Bore B | Circle C (in.) | Thickness (in.) | Number Bolt Holes | Diameter Bolt Holes (in.) | Weight Each (lbs.) |
|----------------|------------|------------|--------|----------------|-----------------|-------------------|---------------------------|--------------------|
| CSRFTHD1500050 | 1/2        | 3 1/2      | 0.875  | 2 3/8          | 5/8             | 4                 | 5/8                       | 1.10               |
| CSRFTHD1500075 | 3/4        | 3 7/8      | 1.100  | 2 3/4          | 5/8             | 4                 | 5/8                       | 1.98               |
| CSRFTHD1500100 | 1          | 4 1/4      | 1.360  | 3 1/8          | 3/4             | 4                 | 5/8                       | 2.18               |
| CSRFTHD1500125 | 1 1/4      | 4 5/8      | 1.700  | 3 1/2          | 7/8             | 4                 | 5/8                       | 3.09               |
| CSRFTHD1500150 | 1 1/2      | 5          | 1.950  | 3 7/8          | 7/8             | 4                 | 5/8                       | 3.60               |
| CSRFTHD1500200 | 2          | 6          | 2.440  | 4 3/4          | 1               | 4                 | 3/4                       | 5.07               |
| CSRFTHD1500250 | 2 1/2      | 7          | 2.940  | 5 1/2          | 1 1/8           | 4                 | 3/4                       | 7.05               |
| CSRFTHD1500300 | 3          | 7 1/2      | 3.570  | 6              | 1 1/4           | 4                 | 3/4                       | 7.94               |
| CSRFTHD1500400 | 4          | 9          | 4.570  | 7 1/2          | 1 3/8           | 8                 | 3/4                       | 13.01              |
| CSRFTHD1500500 | 5          | 10         | 5.660  | 8 1/2          | 1 3/8           | 8                 | 7/8                       | 14.99              |
| CSRFTHD1500600 | 6          | 11         | 6.720  | 9 1/2          | 1 1/2           | 8                 | 7/8                       | 18.74              |
| CSRFTHD1500800 | 8          | 13 1/2     | 8.720  | 11 3/4         | 1 3/4           | 8                 | 7/8                       | 29.98              |
| CSRFTHD1501000 | 10         | 16         | 10.880 | 14 1/4         | 2               | 12                | 1                         | 42.99              |
| CSRFTHD1501200 | 12         | 19         | 12.880 | 17             | 2 1/8           | 12                | 1                         | 63.93              |

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## Stainless Steel 304 Forged Raised Face Slip-on Flanges



**Stainless Steel 304 Forged Raised Face Slip-On Flange 150# (ANSI B16.56 & ASTM A-105)**

| Part Number    | Size (in.) | OD A (in.) | Bore B | Circle C (in.) | Thickness (in.) | Number Bolt Holes | Diameter Bolt Holes (in.) | Weight Each (lbs.) |
|----------------|------------|------------|--------|----------------|-----------------|-------------------|---------------------------|--------------------|
| SSRF3041500050 | 1/2        | 3 1/2      | 0.875  | 2 3/8          | 5/8             | 4                 | 5/8                       | 1.10               |
| SSRF3041500075 | 3/4        | 3 7/8      | 1.100  | 2 3/4          | 5/8             | 4                 | 5/8                       | 1.98               |
| SSRF3041500100 | 1          | 4 1/4      | 1.360  | 3 1/8          | 3/4             | 4                 | 5/8                       | 2.18               |
| SSRF3041500125 | 1 1/4      | 4 5/8      | 1.700  | 3 1/2          | 7/8             | 4                 | 5/8                       | 3.09               |
| SSRF3041500150 | 1 1/2      | 5          | 1.950  | 3 7/8          | 7/8             | 4                 | 5/8                       | 3.60               |
| SSRF3041500200 | 2          | 6          | 2.440  | 4 3/4          | 1               | 4                 | 3/4                       | 5.07               |
| SSRF3041500250 | 2 1/2      | 7          | 2.940  | 5 1/2          | 1 1/8           | 4                 | 3/4                       | 7.05               |
| SSRF3041500300 | 3          | 7 1/2      | 3.570  | 6              | 1 1/4           | 4                 | 3/4                       | 7.94               |
| SSRF3041500400 | 4          | 9          | 4.570  | 7 1/2          | 1 3/8           | 8                 | 3/4                       | 13.01              |
| SSRF3041500500 | 5          | 10         | 5.660  | 8 1/2          | 1 3/8           | 8                 | 7/8                       | 14.99              |
| SSRF3041500600 | 6          | 11         | 6.720  | 9 1/2          | 1 1/2           | 8                 | 7/8                       | 18.74              |
| SSRF3041500800 | 8          | 13 1/2     | 8.720  | 11 3/4         | 1 3/4           | 8                 | 7/8                       | 29.98              |
| SSRF3041501000 | 10         | 16         | 10.880 | 14 1/4         | 2               | 12                | 1                         | 42.99              |

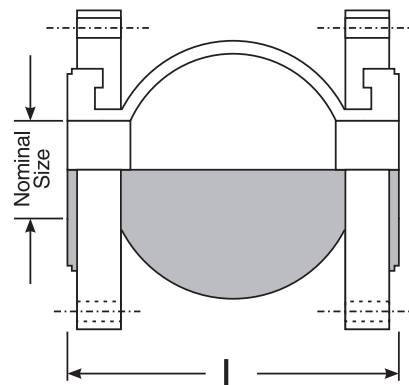
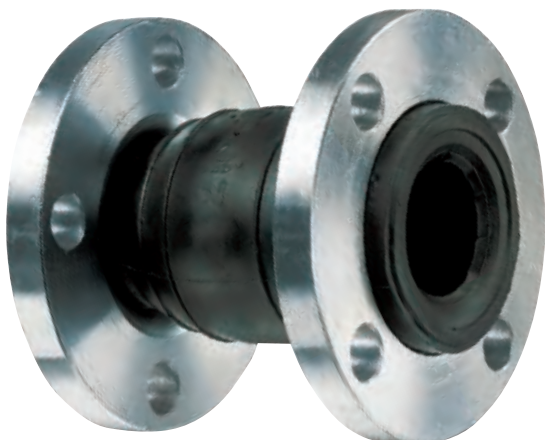
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## Single Sphere Rubber Expansion Joints



**Single Sphere Flanged Rubber Expansion Joint**

| Part Number | Size (in.) | Length (L - in.) | Allowable Movement      |                        |                             |                              | Operating Conditions   |                          |             |                    |
|-------------|------------|------------------|-------------------------|------------------------|-----------------------------|------------------------------|------------------------|--------------------------|-------------|--------------------|
|             |            |                  | Axial Compression (in.) | Axial Elongation (in.) | Transverse Deflection (in.) | Angular Deflection (Degrees) | Maximum Pressure (PSI) | Maximum Temperature (°F) | Vacuum (HG) | Weight Each (lbs.) |
| HTSRF12x6   | 1 1/4      | 6                | 1/2                     | 3/8                    | 1/2                         | 15                           | 225                    | 220                      | 16          | 5.00               |
| HTSRF15x6   | 1 1/2      | 6                | 1/2                     | 3/8                    | 1/2                         | 15                           | 225                    | 220                      | 16          | 6.10               |
| HTSRF20x6   | 2          | 6                | 1/2                     | 3/8                    | 1/2                         | 15                           | 225                    | 220                      | 16          | 8.90               |
| HTSRF25x6   | 2 1/2      | 6                | 1/2                     | 3/8                    | 1/2                         | 15                           | 225                    | 220                      | 16          | 12.30              |
| HTSRF30x6   | 3          | 6                | 1/2                     | 3/8                    | 1/2                         | 15                           | 225                    | 220                      | 16          | 14.00              |
| HTSRF40x6   | 4          | 6                | 5/8                     | 3/8                    | 1/2                         | 15                           | 225                    | 220                      | 16          | 18.30              |
| HTSRF50x6   | 5          | 6                | 5/8                     | 3/8                    | 1/2                         | 15                           | 225                    | 220                      | 16          | 22.80              |
| HTSRF60x6   | 6          | 6                | 5/8                     | 3/8                    | 1/2                         | 15                           | 225                    | 220                      | 16          | 26.80              |
| HTSRF80x6   | 8          | 6                | 5/8                     | 3/8                    | 1/2                         | 15                           | 225                    | 220                      | 16          | 40.60              |
| HTSRF100x8  | 10         | 8                | 3/4                     | 1/2                    | 3/4                         | 15                           | 225                    | 220                      | 16          | 56.60              |
| HTSRF120x8  | 12         | 8                | 3/4                     | 1/2                    | 3/4                         | 15                           | 225                    | 220                      | 16          | 83.00              |
| HTSRF140x8  | 14         | 8                | 3/4                     | 1/2                    | 3/4                         | 15                           | 140                    | 220                      | 16          | 115.00             |
| HTSRF160x8  | 16         | 8                | 3/4                     | 1/2                    | 3/4                         | 15                           | 140                    | 220                      | 16          | 165.00             |
| HTSRF180x8  | 18         | 8                | 3/4                     | 1/2                    | 3/4                         | 15                           | 125                    | 220                      | 16          | 168.00             |
| HTSRF200x8  | 20         | 8                | 3/4                     | 1/2                    | 3/4                         | 15                           | 125                    | 220                      | 16          | 170.00             |

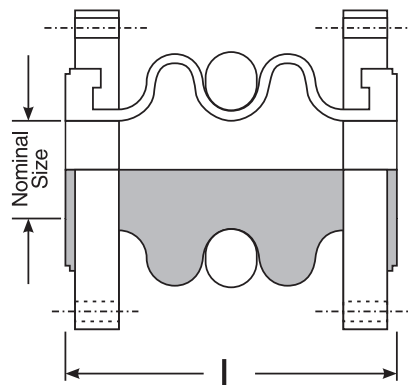
See applications and specifications on page 64.

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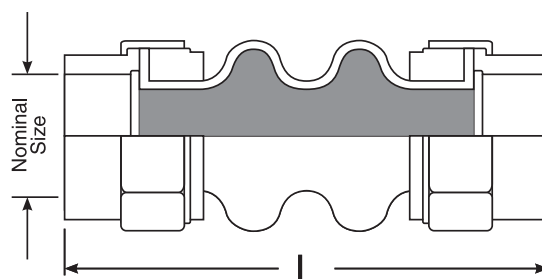


## Double Sphere and Threaded Union Rubber Expansion Joints



**Double Sphere Flanged Rubber Expansion Joint**

| Part Number | Size (in.) | Length (L - in.) | Allowable Movement      |                        |                             |                              | Operating Conditions   |                          |             |                    |
|-------------|------------|------------------|-------------------------|------------------------|-----------------------------|------------------------------|------------------------|--------------------------|-------------|--------------------|
|             |            |                  | Axial Compression (in.) | Axial Elongation (in.) | Transverse Deflection (in.) | Angular Deflection (Degrees) | Maximum Pressure (PSI) | Maximum Temperature (°F) | Vacuum (HG) | Weight Each (lbs.) |
| HTDRF12x7   | 1 1/4      | 7                | 2                       | 1 1/4                  | 1 1/2                       | 40                           | 150                    | 220                      | 16          | 5.30               |
| HTDRF15x7   | 1 1/2      | 7                | 2                       | 1 1/4                  | 1 1/2                       | 40                           | 150                    | 220                      | 16          | 6.80               |
| HTDRF20x7   | 2          | 7                | 2                       | 1 1/4                  | 1 1/2                       | 40                           | 150                    | 220                      | 16          | 9.00               |
| HTDRF25x7   | 2 1/2      | 7                | 2                       | 1 1/4                  | 1 1/2                       | 40                           | 150                    | 220                      | 16          | 13.30              |
| HTDRF30x7   | 3          | 7                | 2                       | 1 1/4                  | 1 1/2                       | 40                           | 150                    | 220                      | 16          | 14.30              |
| HTDRF40x9   | 4          | 9                | 2 1/4                   | 1 1/2                  | 1 3/4                       | 35                           | 150                    | 220                      | 16          | 20.30              |
| HTDRF50x9   | 5          | 9                | 2 1/4                   | 1 1/2                  | 1 3/4                       | 35                           | 150                    | 220                      | 16          | 24.50              |
| HTDRF60x9   | 6          | 9                | 2 1/4                   | 1 1/2                  | 1 3/4                       | 35                           | 150                    | 220                      | 16          | 29.50              |
| HTDRF80x13  | 8          | 13               | 2 1/2                   | 1 1/2                  | 1 3/4                       | 30                           | 150                    | 220                      | 16          | 43.80              |
| HTDRF100x13 | 10         | 13               | 2 1/2                   | 1 1/2                  | 1 3/4                       | 30                           | 150                    | 220                      | 16          | 64.10              |
| HTDRF120x13 | 12         | 13               | 2 1/2                   | 1 1/2                  | 1 3/4                       | 30                           | 150                    | 220                      | 16          | 95.00              |



**Threaded Union Rubber Expansion Joint**

| Part Number | Size (in.) | Length (L - in.) | Allowable Movement      |                        |                             |                              | Operating Conditions   |                          |             |                    |
|-------------|------------|------------------|-------------------------|------------------------|-----------------------------|------------------------------|------------------------|--------------------------|-------------|--------------------|
|             |            |                  | Axial Compression (in.) | Axial Elongation (in.) | Transverse Deflection (in.) | Angular Deflection (Degrees) | Maximum Pressure (PSI) | Maximum Temperature (°F) | Vacuum (HG) | Weight Each (lbs.) |
| HTDRU0075   | 3/4        | 8                | 7/8                     | 1/4                    | 7/8                         | 45                           | 150                    | 240                      | 16          | 1.80               |
| HTDRU0100   | 1          | 8                | 7/8                     | 1/4                    | 7/8                         | 45                           | 150                    | 240                      | 16          | 2.80               |
| HTDRU0125   | 1 1/4      | 8                | 7/8                     | 1/4                    | 7/8                         | 45                           | 150                    | 240                      | 16          | 3.50               |
| HTDRU0150   | 1 1/2      | 8                | 7/8                     | 1/4                    | 7/8                         | 45                           | 150                    | 240                      | 16          | 4.00               |
| HTDRU0200   | 2          | 8                | 7/8                     | 1/4                    | 7/8                         | 45                           | 150                    | 240                      | 16          | 5.00               |

See applications and specifications on page 64.

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## Rubber Expansion Joints

### Features & Benefits

- Excellent ability to absorb vibration and sound
- Allows for four-way movement
- Withstands high pressure
- Easy installation using either floating flanges or threaded unions
- Excellent for use with moderate chemicals, most oils, fats, grease, and many solvents
- A retention ring is supplied with all double sphere flanged expansion joints

### Construction:

- Nylon fabric-reinforced neoprene body with forged carbon steel flanges or cast ductile iron pipe unions

### Note:

- Not for use with oxidizing acids, esters, and keytones

## Elastomer Physical Properties & Chemical Resistance

| Material Designation  | Neoprene  | Material Designation    | Neoprene  |
|-----------------------|-----------|-------------------------|-----------|
| ANSI/ASTM D1418-17    | CR        | Dielectric Strength     | Very Good |
| ASTM D-2000 SAE J-200 | BC, BE    | Electrical Insulation   | Fair/Good |
| Ozone                 | Very Good | Water Absorption        | Good      |
| Weather               | Excellent | Radiation               | Very Good |
| Sunlight              | Very Good | Swelling in Oil         | Good      |
| Oxidation             | Very Good | Acid, Diluted           | Excellent |
| Heat                  | Good      | Acid, Concentrated      | Good      |
| Cold                  | Good      | Aliphatic Hydrocarbons  | Fair/Good |
| Flame                 | Good      | Aromatic Hydrocarbons   | Fair      |
| Tear                  | Good      | Oxygenated Hydrocarbons | Poor/Fair |
| Abrasion              | Very Good | Lacquers                | Poor      |
| Impermeability        | Good      | Oil & Gasoline          | Good      |
| Dynamic               | Fair      | Alkali, Diluted         | Good      |
| Rebound-Hot           | Very Good | Alkali, Concentrated    | Poor      |
| Rebound-Cold          | Good      | Animal & Vegetable Oil  | Good      |
| Comp. Set             | Fair      | Chemical                | Fair/Good |
| Tensile Strength      | Good      | Water                   | Good      |

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## Why Rubber Expansion Joints?

There are a number of reasons why rubber expansion joints can provide the ideal solution to your piping and plumbing problems:

- **Minimal face-to-face dimensions** — Rubber expansion joints require considerably less space than typical expansion bends or loops and frequently have a lower pressure drop. This can translate into savings on installation costs, as well as improved performance.
- **Light weight** — Rubber expansion joints are relatively light in weight. This makes installation easier and less costly.
- **Low movement forces required** — The natural flexibility of rubber expansion joints allows almost unlimited flexing and recovery, as well as requiring less force to move. This helps prevent damage to costly equipment and expensive down time.
- **Reduced fatigue factor** — The elastomers used in rubber expansion joints are not subject to fatigue breakdown or embrittlement. And they prevent electrolytic action.
- **Reduced heat loss** — Rubber expansion

joints reduce heat losses and give longer maintenance-free service.

- **Corrosion- and erosion-resistance** — The superior corrosion-resistant characteristics of rubber expansion joints permit the safe handling of a wide variety of materials within the rated pressures and temperatures

### Typical Applications

#### Air Conditioning, Heating & Ventilation Systems

|                                      |                      |
|--------------------------------------|----------------------|
| Commercial & institutional buildings | Hospitals            |
| Schools                              | Motels               |
| Apartments                           | Hotels               |
| Stores                               | Aboard ships & boats |

#### Central & Ancillary Power Generating Stations

|             |                      |
|-------------|----------------------|
| Communities | Buildings            |
| Factories   | Aboard ships & boats |

#### Sewage Disposal & Water Treatment Plants

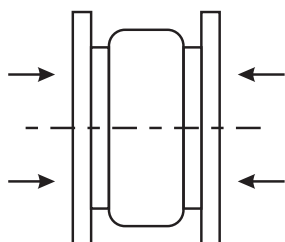
#### Irrigation & Fire Fighting Stations

#### Process Piping

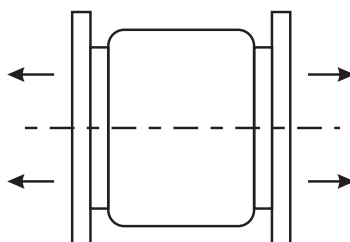
|                    |
|--------------------|
| Pulp & paper       |
| Chemical           |
| Primary metal      |
| Petroleum refining |

## Rubber Expansion Joints Movement

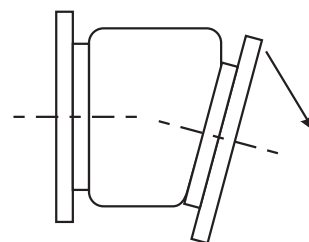
Expansion joints are designed to absorb different movements concurrently



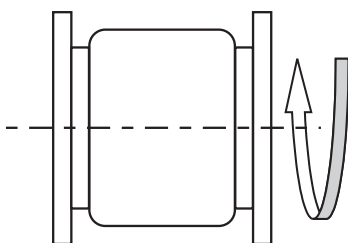
*Axial compression*



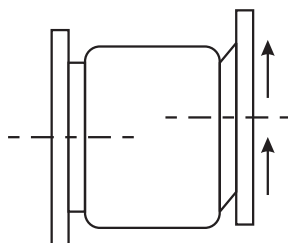
*Axial elongation*



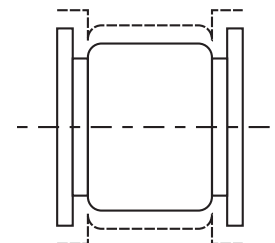
*Angular deflection  
bending of the centerline*



*Torsional movement  
rotation about the centerline (twist)*



*Transverse deflection  
perpendicular to centerline*



*Vibration*

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





## Gaskets



### Buna-N Gasket for Quick-Acting Couplings

Temperature Rating -40°F (-40°C) to 250°F (+121°C)

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| BUNA075     | 3/4        | 0.008              | 10              |
| BUNA100     | 1          | 0.010              | 10              |
| BUNA125     | 1 1/4      | 0.016              | 10              |
| BUNA150     | 1 1/2      | 0.018              | 10              |
| BUNA200     | 2          | 0.022              | 10              |
| BUNA250     | 2 1/2      | 0.034              | 10              |
| BUNA300     | 3          | 0.042              | 10              |
| BUNA400     | 4          | 0.066              | 10              |
| BUNA500     | 5          | 0.094              | 10              |
| BUNA600     | 6          | 0.116              | 10              |
| BUNA800     | 8          | 0.220              | 10              |
| BUNA801     | 8          | 0.240              | 10              |
| BUNA1000    | 10         | 0.390              | 10              |

Note: Sold in standard carton quantity only.



### EPDM Gasket for Quick-Acting Couplings

Temperature Rating -60°F (-51°C) to 300°F (+149°C)

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| EPDM100     | 1          | 0.010              | 10              |
| EPDM125     | 1 1/4      | 0.016              | 10              |
| EPDM150     | 1 1/2      | 0.018              | 10              |
| EPDM200     | 2          | 0.022              | 10              |
| EPDM250     | 2 1/2      | 0.034              | 10              |
| EPDM300     | 3          | 0.042              | 10              |
| EPDM400     | 4          | 0.066              | 10              |

Note: Sold in standard carton quantity only.



**NEW**

### Replacement Elastomer Seal (Lip Type) for Hammer Unions

Temperature Rating -40°F (-40°C) to 250°F (+121°C)

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HUS-2       | 2          | 0.100              | 1               |
| HUS-3       | 3          | 0.150              | 1               |
| HUS-4       | 4          | 0.200              | 1               |



### Viton Gasket for Quick-Acting Couplings

Temperature Rating -20°F (-28°C) to 400°F (+240°C)

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| VITON050    | 1/2        | 0.007              | 10              |
| VITON075    | 3/4        | 0.007              | 10              |
| VITON100    | 1          | 0.010              | 10              |
| VITON125    | 1 1/4      | 0.016              | 10              |
| VITON150    | 1 1/2      | 0.018              | 10              |
| VITON200    | 2          | 0.022              | 10              |
| VITON250    | 2 1/2      | 0.034              | 10              |
| VITON300    | 3          | 0.042              | 10              |
| VITON400    | 4          | 0.066              | 10              |

Note: Sold in standard carton quantity only.







## Gaskets



### White Neoprene (FDA) Gasket for Quick-Acting Couplings

Temperature Rating -45°F (-43°C) to 250°F (+121°C)

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| WN100       | 1          | 0.010              | 10              |
| WN200       | 2          | 0.022              | 10              |
| WN300       | 3          | 0.042              | 10              |
| WN400       | 4          | 0.066              | 10              |
| WN500       | 5          | 0.094              | 10              |
| WN600       | 6          | 0.116              | 10              |

Note: Sold in standard carton quantity only.



### BUNA-N Shank Band for EZ-Seal™ Leak Resistant Couplings

Temperature Rating -40°F (-40°C) to 250°F (+121°C)

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| NBR-LF150   | 1 1/2      | 0.004              | 10              |
| NBR-LF200   | 2          | 0.009              | 10              |
| NBR-LF300   | 3          | 0.029              | 10              |
| NBR-LF400   | 4          | 0.040              | 10              |

Note: Sold in standard carton quantity only.



### BUNA-N Gasket for API Petroleum Couplings

Temperature Rating -40°F (-40°C) to 250°F (+121°C)

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| TCG-400     | 4          | 0.070              | 1               |





## Gaskets



### Buna-N Gasket for Pin Lug Couplings

Temperature Rating -40°F (-40°C) to 250°F (+121°C)

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| HW150       | 1 1/2      | 0.008              | 25              |
| HW200       | 2          | 0.012              | 25              |
| HW250       | 2 1/2      | 0.017              | 25              |
| HW300       | 3          | 0.031              | 25              |
| HW400       | 4          | 0.050              | 25              |
| HW600       | 6          | 0.094              | 10              |



### Buna-N Gasket for Fire Hydrant Pin Lug Couplings

Temperature Rating -40°F (-40°C) to 250°F (+121°C)

| Part Number | Size (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------|--------------------|-----------------|
| FHW150      | 1 1/2      | 0.008              | 40              |
| FHW250      | 2 1/2      | 0.017              | 10              |



### Natural Rubber Gasket for Sandblast Couplings

Temperature Rating -60°F (-51°C) to 220°F (+104°C)

| Part Number | Weight Each (lbs.) | Standard Carton |
|-------------|--------------------|-----------------|
| SBG         | 0.032              | 10              |
| SRG-2       | 0.063              | 10              |

Note: Sold in standard carton quantity only.



### Buna-N Gasket for Universal Couplings

Temperature Rating -20°F (-29°C) to 150°F (+65°C)

| Part Number | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------------|--------------------|-----------------|
| AHG-75      | 1/2 - 1          | 0.010              | 10              |
| AHG-100     | 1 1/4 - 2        | 0.020              | 10              |

Note: Sold in standard carton quantity only.





## Handles



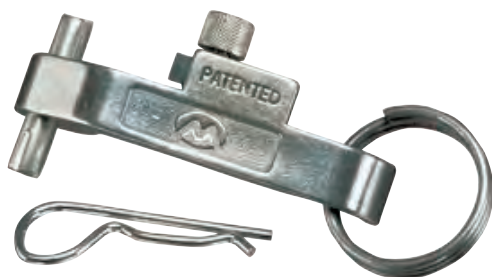
**Brass Handle Set for Quick-Acting Couplings**  
(Including SS Slot Pins, SS Pull Rings, CS Safety Clips)

| Part Number | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------------|--------------------|-----------------|
| HA BRASS075 | 1/2 - 3/4        | 0.10               | 1               |
| HA BRASS100 | 1                | 0.16               | 1               |
| HA BRASS200 | 1 1/4 - 2 1/2    | 0.20               | 1               |
| HA BRASS300 | 3 - 5            | 0.28               | 1               |
| HA BRASS600 | 6 - 10           | 0.52               | 1               |



**304 Stainless Steel Handle Set for Quick-Acting Couplings**  
(Including SS Slot Pins, SS Pull Rings, SS Safety Clips)

| Part Number  | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|--------------|------------------|--------------------|-----------------|
| HA ST-STL075 | 1/2 - 3/4        | 0.08               | 1               |
| HA ST-STL100 | 1                | 0.10               | 1               |
| HA ST-STL200 | 1 1/4 - 2 1/2    | 0.16               | 1               |
| HA ST-STL300 | 3 - 5            | 0.26               | 1               |
| HA ST-STL600 | 6 - 8            | 0.75               | 1               |



**K-Loc™ Auto Lock 316 Stainless Steel Handle Set**  
(Including SS Slot Pins, SS Safety Clips, SS Pull Rings)

| Part Number  | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|--------------|------------------|--------------------|-----------------|
| K-LOCSSHA200 | 1 1/2 - 2        | 2.50               | 1               |
| K-LOCSSHA300 | 3                | 3.30               | 1               |



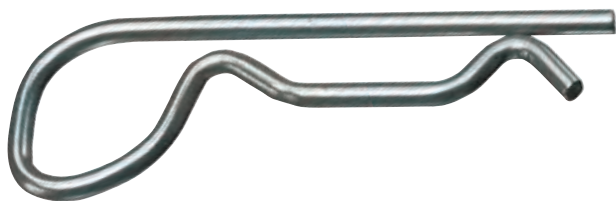
**Polypropylene Ball Valve Handle**

| Part Number | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------------|--------------------|-----------------|
| HA POLY100  | 1/2 - 1          | 0.06               | 60              |
| HA POLY150  | 1 1/4 - 1 1/2    | 0.14               | 40              |
| HA POLY200  | 2 - 4            | 0.27               | 20              |





## Safety Clips



**304 Stainless Steel Safety Clip**  
(For use with Quick-Acting Couplings)

| Part Number | Size Range (in.) | Weight Each (lbs.) | Standard Carton |
|-------------|------------------|--------------------|-----------------|
| SCSS-200    | 3/4 - 5          | 0.010              | 10              |
| SCSS-600    | 6 - 8            | 0.016              | 10              |

Note: Sold in standard carton quantity only.



**Carbon Steel Safety Clip with Lanyard**  
(For use with all Universal and Sandblast Couplings)

| Part Number | Weight Each (lbs.) | Standard Carton |
|-------------|--------------------|-----------------|
| USCL        | 0.025              | 10              |

Note: Sold in standard carton quantity only.





## Chemical Resistance Chart

These recommendations are based upon information from material suppliers and careful examination of available published information and are believed to be accurate. However, since the resistance of metals, plastics and elastomers can be affected by concentration, temperature, presence of other chemicals and other factors, this information should be considered as a general guide rather than an unqualified guarantee. All recommendations assume ambient temperatures unless otherwise noted. The ratings for these materials are based upon the chemical resistance only. Added consideration must be given to pump selections when the chemical is abrasive, viscous in nature, or has a Specific Gravity greater than 1.1

### RATINGS - CHEMICAL EFFECT

**A:** No effect - Excellent    **B:** Minor effect - Good    **C:** Moderate effect - Fair    **D:** Severe effect - Not Recommended

|                                     | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|-------------------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Acetaldehyde5                       | A                   | A                   | B        | D           | -     | -         | C            | -     | A             | B     | D      | B        | C    |                |
| Acetamide                           | B                   | A                   | -        | -           | -     | -         | C            | -     | -             | A     | A      | A        | D    |                |
| Acetate Solv.2                      | B                   | A                   | B        | A           | C     | B         | A            | A     | D             | D     | D      | D        | -    | -              |
| Acetic Acid, Glacial                | B                   | A                   | B        | C           | C     | D         | A            | D     | B             | D     | D      | C        | B    | C              |
| Acetic Acid 20%                     | B                   | A                   | -        | -           | C     | -         | -            | D     | A             | A     | C      | C        | -    | -              |
| Acetic Acid 80%                     | B                   | A                   | -        | -           | C     | -         | -            | D     | B             | A     | C      | C        | D    | -              |
| Acetic Acid                         | B                   | A                   | B        | C           | C     | D         | C            | D     | A             | C     | C      | C        | B    | C              |
| Acetic Anhydride                    | A                   | A                   | B        | C           | D     | B         | D            | D     | A             | D     | A      | B        | B    | C              |
| Acetone6                            | A                   | A                   | A        | A           | A     | A         | A            | A     | B             | D     | D      | C        | A    | D              |
| Acetyl Chloride                     | C                   | A                   | -        | D           | -     | -         | -            | -     | A             | -     | -      | -        | A    |                |
| Acetylene2                          | A                   | A                   | B        | -           | -     | A         | A            | D     | A             | A     | B      | A        | C    |                |
| Acrylonitrile                       | A                   | C                   | B        | A           | -     | C         | -            | -     | B             | C     | D      | D        | D    | -              |
| Alcohols Amyl                       | A                   | A                   | C        | A           | B     | C         | C            | A     | B             | A     | A      | A        | A    | C              |
| Benzyl                              | A                   | A                   | B        | A           | C     | -         | -            | A     | A             | A     | D      | B        | B    | D              |
| Butyl                               | A                   | A                   | B        | B           | C     | C         | C            | A     | B             | A     | A      | A        | A    | A              |
| Diacetone2                          | A                   | A                   | A        | A           | C     | -         | A            | A     | D             | D     | D      | D        | A    | D              |
| Ethyl                               | A                   | A                   | B        | A           | C     | A         | A            | A     | A             | A     | A      | A        | B    | A              |
| Hexyl                               | A                   | A                   | A        | A           | C     | -         | A            | A     | A             | A     | A      | B        | A    | A              |
| Isobutyl                            | A                   | A                   | B        | A           | C     | -         | A            | A     | A             | A     | C      | A        | A    | A              |
| Isopropyl                           | A                   | A                   | B        | A           | C     | C         | A            | A     | A             | A     | C      | B        | A    | A              |
| Methyl6                             | A                   | A                   | B        | A           | C     | A         | A            | A     | A             | C     | B      | A        | A    | A              |
| Octyl                               | A                   | A                   | A        | A           | C     | -         | A            | A     | -             | A     | B      | B        | A    | C              |
| Propyl                              | A                   | A                   | A        | A           | -     | -         | A            | A     | A             | A     | A      | A        | A    | A              |
| Aluminum Chloride 20%               | D                   | C                   | B        | D           | -     | D         | A            | A     | A             | A     | A      | A        | A    | A              |
| Aluminum Chloride                   | D                   | C                   | D        | C           | -     | D         | B            | D     | A             | A     | A      | A        | -    | -              |
| Aluminum Fluoride                   | D                   | C                   | -        | -           | -     | -         | A            | D     | A             | A     | A      | A        | -    | C              |
| Aluminum Hydroxide6                 | A                   | A                   | A        | A           | -     | D         | A            | A     | A             | A     | A      | A        | -    | A              |
| Alum Potassium Sulfate (Alum), 10%  | A                   | -                   | A        | -           | -     | D         | A            | A     | -             | A     | -      | A        | -    | A              |
| Alum Potassium Sulfate (Alum), 100% | D                   | A                   | B        | C           | -     | -         | A            | D     | A             | A     | A      | A        | -    | A              |
| Aluminum Sulfate                    | C                   | C                   | A        | C           | C     | D         | A            | A     | A             | A     | A      | A        | A    | A              |
| Amines                              | A                   | A                   | A        | B           | -     | A         | B            | A     | -             | D     | D      | B        | B    | C              |
| Ammonia 10%                         | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | D      | A        | -    | -              |
| Ammonia, Anhydrous                  | B                   | A                   | B        | D           | -     | D         | B            | A     | A             | D     | B      | A        | A    | D              |
| Ammonia, Liquids                    | A                   | A                   | D        | D           | -     | A         | A            | -     | A             | D     | B      | A        | A    | D              |
| Ammonia, Nitrate                    | A                   | A                   | C        | D           | -     | -         | A            | -     | A             | -     | A      | C        | -    | -              |
| Ammonium Bifluoride                 | C                   | A                   | D        | -           | -     | -         | -            | A     | A             | A     | A      | -        | -    | -              |
| Ammonium Carbonate                  | A                   | A                   | C        | B           | -     | C         | B            | A     | A             | B     | D      | A        | A    | -              |
| Ammonium Casenite                   | -                   | A                   | -        | -           | -     | -         | -            | -     | -             | -     | -      | A        | -    | -              |
| Ammonium Chloride                   | A                   | C                   | C        | D           | C     | D         | D            | A     | A             | A     | A      | A        | A    | A              |
| Ammonium Hydroxide                  | A                   | A                   | C        | D           | D     | A         | C            | A     | A             | B     | B      | A        | A    | C              |
| Ammonium Nitrate                    | A                   | A                   | B        | D           | D     | A         | D            | A     | D             | A     | D      | A        | A    | A              |
| Ammonium Oxalate                    | A                   | A                   | -        | -           | -     | -         | A            | -     | -             | -     | A      | A        | -    | -              |
| Ammonium Persulfate                 | A                   | A                   | C        | A           | -     | D         | A            | D     | A             | C     | A      | A        | A    | A              |

|                                 | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|---------------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Ammonium Phosphate, Dibasic     | A                   | A                   | B        | C           | -     | -         | D            | A     | A             | A     | A      | A        | A    | A              |
| Ammonium Phosphate, Monobasic   | A                   | A                   | B        | D           | -     | -         | A            | A     | A             | A     | A      | A        | A    | A              |
| Ammonium Phosphate, Tribasic    | A                   | A                   | B        | C           | -     | C         | D            | A     | A             | A     | A      | A        | A    | A              |
| Ammonium Sulfate                | D                   | B                   | B        | B           | C     | C         | C            | D     | A             | D     | A      | A        | A    | A              |
| Ammonium Thio-Sulfate           | -                   | A                   | -        | -           | -     | D         | A            | -     | -             | -     | A      | A        | -    | -              |
| Amyl-Acetate                    | A                   | A                   | B        | C           | -     | -         | C            | B     | D             | D     | D      | D        | A    | D              |
| Amyl Alcohol                    | A                   | A                   | B        | A           | -     | -         | A            | A     | A             | B     | B      | A        | A    | C              |
| Amyl Chloride                   | C                   | B                   | D        | A           | -     | -         | A            | C     | D             | A     | D      | D        | D    | D              |
| Aniline                         | A                   | A                   | C        | C           | -     | -         | C            | C     | B             | C     | D      | D        | B    | D              |
| Anti-Freeze                     | A                   | A                   | A        | B           | B     | B         | C            | A     | A             | A     | A      | A        | A    | A              |
| Antimony Trichloride            | D                   | D                   | D        | -           | -     | -         | -            | D     | -             | A     | -      | C        | -    | A              |
| Aqua Regia (80%, HCl, 20%, HNO) | D                   | D                   | D        | D           | -     | -         | -            | D     | C             | C     | D      | D        | D    | D              |
| Aroclor 1248                    | -                   | -                   | -        | -           | -     | -         | A            | -     | -             | A     | D      | D        | B    | D              |
| Aromatic Hydrocarbons           | -                   | A                   | A        | A           | -     | A         | A            | -     | -             | A     | D      | D        | D    | D              |
| Arsenic Acid                    | A                   | A                   | D        | D           | B     | D         | D            | A     | A             | A     | A      | A        | -    | C              |
| Asphalt                         | B                   | A                   | C        | A           | -     | C         | -            | A     | A             | A     | B      | B        | D    | D              |
| Barium Carbonate                | A                   | A                   | B        | B           | -     | B         | B            | A     | A             | A     | A      | A        | -    | A              |
| Barium Chloride                 | D                   | A                   | D        | B           | -     | -         | C            | B     | A             | A     | A      | A        | A    | A              |
| Barium Cyanide                  | -                   | A                   | -        | C           | -     | -         | A            | -     | -             | A     | C      | A        | A    | -              |
| Barium Hydroxide                | C                   | A                   | D        | B           | -     | C         | C            | A     | A             | A     | A      | A        | A    | A              |
| Barium Nitrate                  | A                   | A                   | -        | D           | -     | A         | A            | -     | -             | A     | A      | A        | A    | -              |
| Barium Sulfate                  | A                   | A                   | D        | C           | -     | C         | C            | A     | A             | A     | A      | A        | A    | -              |
| Beet Sugar Liquids              | A                   | A                   | A        | A           | B     | A         | -            | A     | A             | A     | A      | A        | B    | A              |
| Benzaldehyde3                   | A                   | A                   | B        | A           | -     | B         | A            | C     | D             | D     | D      | D        | A    | D              |
| Benzene2                        | A                   | A                   | B        | B           | A     | B         | C            | A     | D             | A     | D      | D        | D    | D              |
| Benzoic Acid2                   | A                   | A                   | B        | B           | -     | D         | -            | D     | D             | A     | D      | D        | D    | D              |
| Benzol                          | A                   | A                   | B        | B           | A     | -         | -            | A     | A             | D     | D      | D        | -    | -              |
| Borax (Sodium Borate)           | A                   | A                   | C        | A           | B     | A         | C            | A     | A             | A     | B      | A        | A    | C              |
| Boric Acid                      | A                   | A                   | B        | B           | C     | D         | -            | A     | A             | A     | A      | A        | A    | A              |
| Brewery Slop                    | -                   | A                   | -        | A           | -     | A         | -            | -     | -             | A     | A      | A        | -    | -              |
| Bromine2 (wet)                  | D                   | D                   | D        | C           | -     | D         | D            | D     | D             | A     | D      | D        | D    | D              |
| Butadiene                       | A                   | A                   | A        | C           | A     | C         | C            | A     | -             | A     | A      | B        | A    | -              |
| Butane2 1                       | A                   | A                   | A        | A           | A     | C         | C            | A     | D             | A     | A      | B        | D    | D              |
| Butanol                         | A                   | A                   | A        | A           | -     | -         | -            | -     | -             | -     | -      | -        | -    | -              |
| Butter                          | B                   | A                   | A        | D           | -     | D         | -            | -     | -             | A     | A      | B        | A    | D              |
| Buttermilk                      | A                   | A                   | A        | D           | -     | D         | -            | A     | -             | A     | A      | A        | -    | D              |
| Butylene                        | B                   | A                   | A        | A           | A     | A         | A            | -     | -             | A     | B      | -        | D    | D              |
| Butyl Acetate1                  | -                   | C                   | A        | A           | -     | -         | A            | -     | D             | D     | B      | D        | B    | D              |
| Butyric Acid1                   | B                   | A                   | B        | C           | -     | D         | -            | D     | A             | D     | D      | D        | B    | -              |
| Calcium Bisulfate               | D                   | A                   | D        | D           | D     | D         | -            | A     | -             | A     | A      | C        | -    | A              |
| Calcium Bisulfide               | -                   | B                   | C        | C           | -     | -         | -            | A     | A             | A     | A      | A        | D    | -              |

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.







## Chemical Resistance Chart

### RATINGS - CHEMICAL EFFECT

**A:** No effect - Excellent    **B:** Minor effect - Good    **C:** Moderate effect - Fair    **D:** Severe effect - Not Recommended

|                            | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|----------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Calcium Bisulfite          | B                   | A                   | C        | C           | -     | -         | -            | A     | A             | A     | A      | A        | -    | A              |
| Calcium Carbonate          | A                   | A                   | C        | C           | -     | D         | -            | A     | A             | A     | A      | A        | -    | A              |
| Calcium Chlorate           | B                   | A                   | -        | C           | -     | -         | -            | A     | -             | A     | -      | A        | -    | A              |
| Calcium Chloride           | A                   | D                   | C        | B           | -     | C         | -            | A     | A             | A     | A      | D        | A    | A              |
| Calcium Hydroxide          | A                   | A                   | C        | B           | -     | -         | -            | A     | A             | A     | A      | A        | A    | A              |
| Calcium Hypochlorite       | D                   | C                   | C        | D           | -     | D         | -            | D     | A             | A     | B      | D        | A    | A              |
| Calcium Sulfate            | A                   | A                   | B        | B           | -     | -         | -            | A     | A             | A     | A      | D        | -    | C              |
| Calgon                     | A                   | A                   | -        | C           | -     | D         | -            | -     | A             | A     | A      | A        | -    | -              |
| Cane Juice2                | A                   | A                   | B        | B           | C     | A         | -            | A     | D             | -     | A      | A        | -    | A              |
| Carbolic Acid (See Phenol) | -                   | -                   | -        | -           | -     | -         | -            | -     | -             | -     | -      | -        | -    | -              |
| Carbon Bisulfide2          | A                   | A                   | A        | C           | -     | B         | -            | A     | D             | A     | D      | D        | D    | D              |
| Carbon Dioxide (wet)       | A                   | A                   | C        | C           | C     | C         | -            | -     | -             | -     | -      | -        | -    | -              |
| CarbonDisulfide2           | B                   | A                   | C        | C           | C     | B         | C            | A     | D             | A     | D      | D        | D    | D              |
| Carbon Monoxide            | A                   | A                   | A        | -           | -     | -         | -            | A     | A             | A     | A      | B        | A    | C              |
| Carbon Tetrachloride2 1    | B                   | B                   | C        | C           | A     | C         | D            | A     | D             | A     | C      | D        | -    | D              |
| Carbonated Water           | A                   | A                   | A        | B           | -     | D         | -            | A     | A             | A     | A      | A        | A    | -              |
| Carbonic Acid              | A                   | B                   | A        | B           | -     | D         | -            | A     | A             | A     | B      | A        | A    | -              |
| Catsup                     | A                   | A                   | D        | C           | -     | D         | -            | A     | A             | A     | A      | C        | -    | -              |
| Chloracetic Acid2          | D                   | D                   | C        | D           | -     | D         | -            | D     | D             | D     | D      | B        | D    | D              |
| Chloric Acid               | D                   | D                   | -        | -           | -     | -         | -            | -     | -             | -     | D      | D        | -    | -              |
| Chlorinated Glue           | A                   | A                   | D        | C           | -     | D         | -            | C     | -             | A     | C      | D        | B    | D              |
| Chlorine, Anhydrous Liquid | D                   | D                   | D        | D           | -     | C         | -            | D     | D             | A     | D      | D        | B    | D              |
| Chlorine (dry)             | A                   | D                   | D        | A           | B     | A         | -            | -     | D             | -     | D      | -        | D    | -              |
| Chlorine Water             | -                   | D                   | D        | D           | D     | D         | -            | D     | D             | A     | D      | D        | -    | D              |
| Chlorobenzene (Mono)       | A                   | A                   | B        | B           | -     | B         | C            | A     | D             | A     | D      | D        | D    | D              |
| Chloroform                 | A                   | A                   | D        | B           | -     | D         | C            | C     | D             | A     | D      | D        | D    | D              |
| Chlorosulfonic Acid1       | D                   | -                   | D        | D           | -     | -         | D            | D     | D             | D     | D      | D        | D    | D              |
| Chlorox (Bleach)           | A                   | A                   | C        | A           | -     | D         | C            | D     | D             | A     | C      | B        | B    | D              |
| Chocolate Syrup            | A                   | A                   | A        | -           | -     | D         | -            | A     | A             | A     | A      | A        | -    | D              |
| Chromic Acid 5%            | A                   | A                   | C        | D           | D     | D         | -            | D     | A             | A     | A      | D        | A    | B              |
| Chromic Acid 10%           | B                   | -                   | -        | -           | D     | -         | -            | D     | A             | A     | D      | D        | -    | -              |
| Chromic Acid 30%           | B                   | -                   | -        | -           | D     | -         | -            | D     | A             | A     | D      | D        | -    | -              |
| Chromic Acid 50%           | B                   | B                   | C        | D           | D     | D         | -            | D     | B             | A     | D      | D        | A    | D              |
| Cider                      | A                   | A                   | B        | A           | -     | D         | -            | -     | -             | A     | A      | A        | -    | -              |
| Citric Acid                | A                   | A                   | C        | D           | C     | D         | -            | C     | B             | A     | D      | A        | A    | A              |
| Citric Oils                | A                   | A                   | C        | B           | -     | -         | -            | -     | A             | A     | A      | D        | -    | -              |
| Coffee                     | A                   | A                   | A        | B           | -     | C         | -            | A     | A             | A     | A      | A        | -    | A              |
| Copper Chloride            | D                   | D                   | D        | D           | -     | D         | -            | D     | A             | A     | A      | A        | A    | A              |
| Copper Cyanide             | A                   | A                   | D        | C           | -     | D         | -            | A     | A             | B     | B      | A        | A    | A              |
| Copper Floborate           | D                   | D                   | D        | D           | -     | D         | -            | -     | A             | B     | A      | -        | A    | -              |
| Copper Nitrate             | A                   | A                   | D        | D           | -     | -         | -            | D     | A             | A     | A      | A        | -    | -              |
| Copper Sulfate (5% Sol)    | A                   | A                   | D        | D           | D     | D         | -            | D     | A             | A     | A      | A        | -    | C              |
| Copper Sulfate             | B                   | -                   | -        | C           | D     | -         | -            | C     | A             | B     | B      | A        | A    | -              |
| Cream                      | A                   | A                   | A        | C           | -     | D         | -            | A     | A             | A     | A      | C        | -    | -              |
| Cresols2                   | A                   | A                   | B        | D           | C     | -         | -            | -     | C             | D     | D      | D        | D    | D              |
| Cresylic Acid              | A                   | A                   | C        | C           | -     | -         | D            | -     | A             | D     | D      | D        | D    | D              |
| Cyclohexane                | A                   | -                   | A        | A           | -     | -         | A            | -     | D             | A     | A      | D        | D    | D              |
| Cyanic Acid                | A                   | -                   | -        | -           | -     | -         | -            | -     | -             | C     | D      | -        | -    | -              |
| Detergents                 | A                   | A                   | A        | A           | -     | -         | A            | A     | A             | A     | A      | B        | A    | C              |
| Dichlorethane              | A                   | A                   | -        | -           | -     | -         | -            | A     | -             | B     | -      | D        | -    | D              |
| Diesel Fuel                | A                   | A                   | A        | A           | -     | A         | A            | -     | D             | A     | A      | D        | D    | D              |
| Diethylamine               | A                   | -                   | A        | A           | -     | -         | -            | C     | D             | B     | B      | B        | C    | C              |
| Diethylene Glycol          | A                   | -                   | -        | A           | -     | -         | -            | A     | -             | A     | A      | A        | A    | A              |
| Diphenyl Oxide             | A                   | -                   | -        | A           | -     | -         | -            | -     | A             | D     | D      | D        | D    | D              |

|                                 | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|---------------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Dyes                            | A                   | A                   | B        | C           | -     | -         | -            | -     | -             | A     | -      | C        | -    | -              |
| Epsom Salts (Magnesium Sulfate) | A                   | A                   | A        | B           | -     | -         | -            | -     | A             | A     | A      | A        | -    | C              |
| Ethane                          | A                   | -                   | A        | A           | -     | -         | -            | -     | -             | A     | A      | B        | D    | D              |
| Ethanolamine                    | A                   | A                   | -        | -           | -     | -         | C            | -     | -             | D     | B      | B        | -    | C              |
| Ether3                          | A                   | A                   | A        | B           | A     | -         | B            | C     | -             | C     | D      | D        | C    | D              |
| Ethyl Acetate2                  | A                   | A                   | B        | B           | -     | -         | C            | A     | C             | D     | D      | D        | B    | D              |
| Ethyl Chloride                  | A                   | A                   | B        | B           | -     | C         | D            | A     | D             | A     | D      | C        | A    | A              |
| Ethyl Sulfate                   | D                   | -                   | -        | -           | -     | -         | -            | -     | -             | A     | A      | -        | -    | -              |
| Ethylene Chloride2              | A                   | A                   | C        | A           | -     | C         | C            | -     | D             | A     | D      | D        | C    | D              |
| Ethylene Dichloride             | A                   | A                   | D        | C           | -     | -         | C            | A     | A             | A     | D      | D        | C    | D              |
| Ethylene Glycol4                | A                   | A                   | B        | B           | B     | B         | C            | A     | A             | A     | A      | A        | A    | A              |
| Ethylene Oxide                  | -                   | A                   | A        | A           | -     | -         | -            | A     | -             | D     | D      | D        | C    | D              |
| Fatty Acids                     | A                   | A                   | B        | C           | -     | D         | -            | A     | A             | A     | C      | B        | C    | C              |
| Ferric Acid                     | D                   | D                   | D        | D           | D     | D         | -            | D     | A             | A     | D      | B        | A    | A              |
| Ferric Nitrate                  | A                   | A                   | D        | D           | -     | -         | -            | D     | A             | A     | A      | A        | A    | A              |
| Ferric Sulfate                  | A                   | C                   | D        | D           | D     | D         | -            | D     | A             | A     | B      | A        | -    | A              |
| Ferrous Chloride                | D                   | D                   | D        | C           | -     | D         | -            | D     | A             | A     | B      | A        | -    | A              |
| Ferrous Sulfate                 | A                   | C                   | D        | C           | -     | D         | D            | D     | A             | A     | B      | A        | -    | A              |
| Fluoboric Acid                  | D                   | B                   | -        | -           | -     | D         | -            | C     | A             | A     | B      | A        | -    | -              |
| Fluorine                        | D                   | D                   | D        | D           | -     | D         | D            | D     | -             | -     | -      | -        | -    | -              |
| Fluosilicic Acid                | -                   | B                   | D        | -           | -     | D         | -            | D     | A             | B     | A      | A        | -    | -              |
| Formaldehyde 40%                | -                   | A                   | -        | -           | -     | -         | -            | D     | A             | D     | B      | A        | -    | -              |
| Formaldehyde                    | A                   | A                   | A        | A           | B     | D         | A            | A     | D             | C     | D      | B        | C    | C              |
| Formic Acid6                    | A                   | B                   | D        | C           | C     | D         | D            | D     | A             | B     | D      | D        | A    | C              |
| Freon 111                       | -                   | A                   | B        | B           | -     | C         | B            | A     | -             | B     | C      | D        | D    | D              |
| Freon 12 (wet)2                 | -                   | D                   | B        | B           | -     | -         | -            | A     | A             | A     | A      | B        | B    | D              |
| Freon 22                        | -                   | A                   | B        | B           | -     | -         | -            | A     | -             | D     | D      | A        | A    | A              |
| Freon 113                       | -                   | A                   | B        | B           | -     | -         | -            | A     | -             | C     | A      | A        | -    | D              |
| Freon T.F.4                     | -                   | A                   | B        | B           | -     | -         | -            | A     | D             | B     | A      | A        | D    | D              |
| Fruit Juice                     | A                   | A                   | B        | B           | -     | D         | D            | A     | A             | A     | A      | A        | -    | -              |
| Fuel Oils                       | A                   | A                   | A        | B           | -     | C         | B            | A     | B             | A     | A      | B        | D    | D              |
| Furan Resin                     | A                   | A                   | A        | A           | -     | A         | A            | -     | -             | A     | D      | D        | -    | D              |
| Furfural1                       | A                   | A                   | A        | A           | -     | -         | A            | A     | D             | D     | D      | D        | B    | D              |
| Gallic Acid                     | A                   | A                   | A        | A           | -     | D         | D            | A     | -             | B     | A      | -        | -    | -              |
| Gasoline1 4                     | A                   | A                   | A        | A           | -     | A         | A            | A     | C             | A     | A      | D        | C    | D              |
| Gelatin                         | A                   | A                   | A        | A           | C     | D         | D            | A     | A             | A     | A      | A        | A    | A              |
| Glucose                         | -                   | A                   | A        | A           | A     | B         | B            | A     | A             | A     | A      | A        | A    | A              |
| Glue P.V.A.1                    | B                   | A                   | B        | A           | -     | -         | A            | A     | -             | A     | A      | A        | -    | -              |
| Glycerine                       | A                   | A                   | A        | B           | B     | B         | A            | A     | A             | A     | A      | A        | A    | A              |
| Glycolic Acid                   | -                   | -                   | -        | -           | -     | -         | -            | -     | A             | A     | A      | A        | -    | -              |
| Gold Monocyanide                | -                   | A                   | -        | A           | -     | D         | -            | -     | -             | A     | A      | A        | -    | -              |
| Grape Juice                     | A                   | A                   | B        | B           | -     | D         | -            | -     | -             | A     | A      | A        | -    | -              |
| Grease4                         | A                   | A                   | A        | B           | -     | A         | A            | -     | -             | A     | A      | D        | -    | -              |
| Heptane1                        | -                   | A                   | A        | A           | -     | -         | B            | A     | D             | A     | A      | B        | D    | -              |
| Hexane1                         | A                   | A                   | A        | B           | -     | -         | B            | A     | C             | A     | A      | B        | D    | D              |
| Honey                           | A                   | A                   | A        | A           | -     | A         | -            | A     | A             | A     | A      | A        | A    | -              |
| Hydraulic Oils (Petroleum)1     | A                   | A                   | A        | B           | -     | A         | A            | A     | D             | A     | A      | B        | D    | D              |
| Hydraulic Oils (Synthetic)1     | A                   | A                   | A        | A           | -     | A         | -            | A     | D             | A     | C      | -        | -    | -              |
| Hydrazine                       | A                   | A                   | -        | -           | -     | C         | -            | -     | -             | A     | B      | B        | A    | C              |
| Hydrobromic Acid 20%            | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | A     | D      | C        | -    | -              |
| Hydrobromic Acid4               | D                   | D                   | D        | D           | -     | D         | D            | D     | B             | A     | D      | D        | A    | A              |
| Hydrochloric Acid (Dry Gas)     | C                   | A                   | D        | -           | -     | -         | D            | -     | -             | -     | -      | -        | A    | -              |
| Hydrochloric Acid 20%4          | D                   | D                   | D        | D           | -     | D         | -            | D     | A             | A     | C      | C        | A    | C              |

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## Chemical Resistance Chart

### RATINGS - CHEMICAL EFFECT

**A:** No effect - Excellent    **B:** Minor effect - Good    **C:** Moderate effect - Fair    **D:** Severe effect - Not Recommended

|                                     | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|-------------------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Hydrochloric Acid 37%4              | D                   | D                   | D        | D           | -     | D         | -            | D     | A             | A     | C      | C        | C    | D              |
| Hydrochloric Acid 100%              | D                   | D                   | D        | D           | -     | D         | -            | D     | -             | C     | D      | C        | -    | A              |
| Hydrocyanic Acid                    | A                   | A                   | A        | D           | D     | -         | C            | A     | A             | A     | C      | B        | -    | A              |
| Hydrocyanic Acid (Gas 10%)          | D                   | D                   | -        | -           | -     | -         | -            | -     | -             | -     | -      | C        | A    | C              |
| Hydrofluoric Acid 20%1              | D                   | D                   | D        | D           | -     | D         | -            | D     | A             | A     | D      | C        | A    | C              |
| Hydrofluoric Acid 75%1 2            | C                   | D                   | D        | D           | -     | D         | -            | D     | B             | A     | D      | D        | C    | C              |
| Hydrofluoric Acid 100%              | D                   | D                   | D        | D           | -     | D         | -            | -     | -             | -     | D      | D        | -    | D              |
| Hydrofluosilicic Acid 20%           | D                   | D                   | D        | A           | -     | D         | -            | D     | A             | B     | B      | A        | A    | A              |
| Hydrofluosilicic Acid               | D                   | D                   | C        | D           | -     | -         | -            | -     | -             | -     | -      | A        | -    | -              |
| Hydrogen Gas                        | A                   | A                   | A        | A           | -     | B         | B            | -     | -             | A     | -      | -        | -    | -              |
| Hydrogen Peroxide 10%               | C                   | C                   | A        | D           | D     | D         | -            | D     | -             | -     | A      | D        | -    | C              |
| Hydrogen Peroxide 30%               | -                   | B                   | -        | -           | D     | -         | -            | D     | A             | A     | D      | C        | -    | -              |
| Hydrogen Peroxide                   | A                   | B                   | A        | D           | D     | D         | D            | A     | A             | D     | D      | D        | C    | C              |
| Hydrogen Sulfide, Aqueous Solution  | D                   | A                   | C        | D           | C     | D         | -            | D     | A             | D     | C      | B        | A    | D              |
| Hydrogen Sulfide (dry)              | C                   | A                   | D        | D           | C     | B         | B            | D     | -             | D     | -      | -        | -    | A              |
| Hydroxyacetic Acid (70%)            | -                   | -                   | D        | -           | -     | -         | -            | -     | -             | -     | A      | A        | A    | -              |
| Ink                                 | A                   | A                   | C        | C           | -     | D         | D            | A     | -             | A     | A      | A        | -    | -              |
| Iodine                              | D                   | D                   | D        | D           | -     | D         | -            | D     | A             | B     | D      | B        | D    | D              |
| Iodine (in Alcohol)                 | -                   | B                   | -        | -           | -     | -         | -            | D     | B             | A     | D      | D        | -    | -              |
| Iodoform                            | C                   | A                   | A        | C           | -     | C         | B            | A     | -             | A     | -      | -        | -    | -              |
| Isotane2                            | -                   | -                   | A        | -           | -     | -         | -            | D     | A             | A     | -      | -        | -    | D              |
| Isopropyl Acetate                   | -                   | B                   | C        | -           | -     | -         | -            | -     | D             | D     | D      | B        | D    | D              |
| Isopropyl Ether2                    | -                   | A                   | A        | A           | -     | -         | A            | -     | D             | D     | B      | D        | D    | D              |
| Jet Fuel (JP#, JP4, JP5)            | A                   | A                   | A        | A           | -     | A         | A            | A     | D             | A     | A      | D        | D    | D              |
| Kerosene2                           | A                   | A                   | A        | A           | A     | A         | B            | A     | D             | A     | A      | D        | A    | D              |
| Ketones                             | A                   | A                   | B        | A           | -     | A         | A            | A     | D             | D     | D      | D        | D    | C              |
| Lacquers                            | A                   | A                   | A        | A           | C     | C         | C            | A     | A             | D     | D      | D        | D    | -              |
| Lacquer Thinners                    | -                   | A                   | -        | -           | C     | -         | -            | A     | B             | -     | D      | D        | A    | -              |
| Lactic Acid                         | A                   | B                   | C        | D           | -     | D         | D            | C     | A             | B     | B      | A        | B    | A              |
| Lard                                | A                   | A                   | A        | A           | -     | A         | C            | A     | A             | A     | A      | B        | -    | D              |
| Latex                               | A                   | A                   | A        | A           | -     | -         | -            | A     | -             | A     | A      | C        | A    | -              |
| Lead Acetate                        | A                   | A                   | D        | C           | -     | -         | D            | A     | A             | D     | B      | D        | A    | A              |
| Lead Sulfamate                      | -                   | -                   | -        | -           | -     | -         | -            | A     | A             | B     | A      | D        | C    | -              |
| Ligroin3                            | -                   | A                   | -        | A           | -     | -         | -            | D     | A             | A     | B      | A        | D    | -              |
| Lime                                | A                   | A                   | C        | A           | -     | A         | -            | -     | A             | A     | B      | D        | -    | -              |
| Lubricants                          | A                   | A                   | A        | B           | -     | -         | -            | A     | A             | A     | A      | D        | -    | D              |
| Magnesium Carbonate                 | A                   | A                   | -        | -           | -     | -         | -            | A     | -             | A     | A      | A        | -    | -              |
| Magnesium Chloride                  | B                   | B                   | D        | B           | C     | D         | C            | A     | A             | A     | A      | A        | A    | A              |
| Magnesium Hydroxide                 | A                   | A                   | D        | C           | B     | B         | B            | A     | A             | A     | B      | B        | -    | C              |
| Magnesium Nitrate                   | A                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Magnesium Oxide                     | A                   | A                   | -        | -           | -     | -         | -            | -     | -             | -     | A      | A        | A    | -              |
| Magnesium Sulfate                   | B                   | A                   | B        | B           | B     | C         | B            | A     | A             | A     | A      | A        | D    | C              |
| Maleic Acid                         | A                   | A                   | B        | C           | -     | -         | B            | A     | C             | A     | D      | A        | D    | D              |
| Maleic Anhydride                    | -                   | -                   | -        | -           | -     | -         | -            | -     | -             | -     | A      | D        | D    | -              |
| Malic Acid                          | A                   | A                   | C        | D           | -     | -         | D            | A     | -             | B     | -      | A        | -    | A              |
| Mash                                | A                   | A                   | -        | A           | -     | -         | -            | -     | -             | -     | A      | A        | -    | -              |
| Mayonnaise                          | A                   | A                   | D        | D           | -     | D         | D            | A     | A             | A     | A      | -        | -    | -              |
| Melamine                            | D                   | D                   | -        | D           | -     | -         | -            | -     | -             | -     | C      | -        | -    | -              |
| Mercuric Chloride (Dilute Solution) | D                   | D                   | D        | D           | D     | D         | D            | A     | A             | A     | A      | A        | A    | A              |
| Mercuric Cyanide                    | A                   | A                   | D        | D           | -     | -         | D            | -     | A             | -     | A      | -        | -    | -              |
| Mercury                             | A                   | A                   | C        | D           | D     | A         | A            | A     | A             | A     | A      | A        | A    | A              |
| Methanol (See Alcohol)              |                     |                     |          |             |       |           |              |       |               |       |        |          |      |                |
| Methyl Acetate                      | -                   | A                   | A        | A           | -     | -         | B            | -     | -             | D     | D      | B        | B    | D              |

|                                     | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|-------------------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Methyl Acrylate                     | -                   | -                   | -        | -           | -     | -         | -            | -     | -             | -     | D      | D        | B    | D              |
| Methyl Acetone                      | -                   | A                   | A        | A           | -     | A         | A            | -     | -             | D     | D      | D        | -    | -              |
| Methyl Alcohol 10%                  | -                   | A                   | C        | C           | -     | -         | B            | A     | -             | -     | B      | -        | -    | A              |
| Methyl Bromide                      | -                   | -                   | -        | -           | -     | -         | -            | -     | -             | A     | B      | D        | D    | D              |
| Methyl Butyl Ketone                 | -                   | A                   | A        | -           | -     | -         | -            | -     | -             | D     | D      | D        | A    | D              |
| Methyl Cellosolve                   | -                   | -                   | A        | A           | -     | -         | -            | -     | -             | A     | D      | D        | D    | B              |
| Methyl Chloride                     | A                   | A                   | D        | A           | -     | -         | -            | A     | D             | A     | D      | D        | C    | D              |
| Methyl Dichloride                   | -                   | -                   | -        | -           | -     | -         | -            | -     | -             | A     | D      | D        | D    | D              |
| Methyl Ethyl Ketone                 | A                   | A                   | A        | A           | -     | -         | -            | A     | A             | D     | D      | D        | A    | D              |
| Methyl Isobutyl Ketone2             | -                   | A                   | -        | -           | -     | -         | -            | A     | C             | D     | D      | D        | C    | D              |
| Methyl Isopropyl Ketone             | -                   | A                   | -        | -           | -     | -         | -            | A     | -             | D     | D      | D        | B    | D              |
| Methyl Methacrylate                 | -                   | -                   | -        | -           | -     | -         | -            | -     | -             | D     | D      | D        | D    | D              |
| Methylamine                         | -                   | A                   | A        | D           | -     | B         | B            | -     | -             | -     | B      | -        | -    | -              |
| Methylene Chloride                  | A                   | A                   | A        | A           | C     | -         | B            | D     | D             | D     | D      | D        | D    | D              |
| Milk                                | A                   | A                   | A        | C           | C     | D         | D            | A     | A             | A     | A      | A        | A    | A              |
| Molasses                            | A                   | A                   | A        | A           | B     | A         | A            | A     | A             | A     | A      | A        | -    | -              |
| Mustard                             | A                   | A                   | B        | B           | -     | C         | B            | A     | A             | A     | B      | C        | -    | -              |
| Naptha                              | A                   | A                   | A        | B           | -     | B         | B            | A     | A             | B     | A      | B        | D    | D              |
| Napthalene                          | A                   | B                   | B        | C           | -     | B         | A            | -     | B             | B     | D      | D        | D    | D              |
| Nickel Chloride                     | A                   | B                   | D        | D           | -     | D         | -            | A     | A             | A     | A      | A        | A    | A              |
| Nickel Sulfate                      | A                   | B                   | D        | C           | C     | D         | D            | A     | A             | A     | A      | A        | A    | C              |
| Nitric Acid (10% Solution)          | A                   | A                   | D        | D           | -     | D         | D            | D     | A             | A     | D      | D        | B    | D              |
| Nitric Acid (20% Solution)          | A                   | A                   | D        | D           | -     | D         | -            | D     | A             | A     | D      | D        | D    | D              |
| Nitric Acid (50% Solution)          | A                   | A                   | D        | D           | -     | D         | -            | D     | D             | A     | D      | D        | D    | D              |
| Nitric Acid (Concentrated Solution) | D                   | B                   | B        | D           | D     | D         | -            | D     | D             | B     | D      | D        | D    | D              |
| Nitrobenzene2                       | A                   | B                   | C        | D           | -     | B         | B            | C     | C             | D     | D      | D        | D    | D              |
| Oils Aniline                        | A                   | A                   | C        | A           | -     | A         | -            | C     | A             | A     | D      | D        | B    | D              |
| Anise                               | A                   | A                   | -        | -           | -     | -         | -            | -     | -             | -     | -      | D        | -    | -              |
| Bay                                 | A                   | A                   | -        | -           | -     | -         | -            | -     | -             | A     | -      | D        | -    | -              |
| Bone                                | A                   | A                   | -        | A           | -     | -         | -            | -     | -             | A     | A      | D        | -    | -              |
| Castor                              | A                   | A                   | A        | A           | -     | A         | -            | -     | -             | A     | A      | A        | B    | A              |
| Cinnamon                            | A                   | A                   | -        | -           | -     | -         | -            | -     | -             | A     | D      | -        | D    | -              |
| Citric                              | A                   | A                   | -        | D           | -     | D         | -            | -     | A             | A     | A      | D        | -    | -              |
| Clove                               | A                   | A                   | -        | -           | -     | -         | -            | A     | B             | -     | A      | -        | -    | -              |
| Coconut                             | A                   | A                   | B        | A           | -     | A         | -            | A     | A             | A     | A      | A        | A    | D              |
| Cod Liver                           | A                   | A                   | B        | -           | -     | -         | -            | A     | A             | A     | A      | B        | A    | D              |
| Corn                                | A                   | A                   | B        | B           | -     | A         | -            | A     | A             | A     | A      | D        | C    | D              |
| Cotton Seed                         | A                   | A                   | B        | B           | -     | A         | C            | A     | A             | A     | A      | D        | C    | D              |
| Cresote2                            | A                   | A                   | A        | -           | -     | -         | -            | D     | A             | A     | B      | D        | D    | D              |
| Diesel Fuel (2D, 3D, 4D, 5D)        | A                   | A                   | A        | A           | -     | -         | -            | A     | A             | A     | A      | D        | D    | D              |
| Fuel (1,2,3,5A, 5B, 6)              | A                   | A                   | A        | A           | -     | -         | -            | B     | A             | B     | D      | D        | D    | D              |
| Oils (Cont.) Ginger                 | A                   | A                   | -        | -           | -     | -         | -            | -     | A             | A     | A      | -        | -    | -              |
| Hydraulic (See Hydraulic)           |                     |                     |          |             |       |           |              |       |               |       |        |          |      |                |
| Lemon                               | A                   | A                   | -        | -           | -     | -         | -            | -     | D             | A     | -      | D        | -    | -              |
| Linseed                             | A                   | A                   | A        | A           | -     | A         | -            | A     | A             | A     | A      | D        | D    | D              |
| Mineral                             | A                   | A                   | A        | A           | -     | A         | B            | A     | B             | A     | A      | B        | D    | D              |
| Olive                               | A                   | A                   | A        | B           | -     | A         | B            | A     | A             | A     | A      | B        | -    | D              |
| Orange                              | A                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | D        | -    | -              |
| Palm                                | A                   | A                   | A        | B           | -     | -         | -            | A     | -             | A     | A      | D        | -    | -              |
| Peanut3                             | A                   | A                   | A        | A           | -     | A         | -            | -     | D             | A     | A      | D        | -    | D              |
| Peppermint2                         | A                   | A                   | -        | A           | -     | -         | -            | D     | A             | D     | D      | -        | -    | -              |
| Pine                                | A                   | A                   | A        | D           | -     | C         | B            | -     | -             | A     | A      | D        | -    | D              |
| Rape Seed                           | A                   | A                   | -        | A           | -     | -         | -            | -     | A             | B     | D      | -        | D    | -              |

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|                                                | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|------------------------------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Rosin                                          | A                   | A                   | A        | -           | -     | -         | -            | A     | A             | A     | A      | -        | -    | -              |
| Sesame Seed                                    | A                   | A                   | A        | A           | -     | A         | -            | -     | -             | A     | A      | D        | -    | -              |
| Silicone                                       | A                   | A                   | -        | A           | -     | A         | -            | A     | A             | A     | A      | A        | -    | A              |
| Soybean                                        | A                   | A                   | A        | B           | -     | A         | -            | A     | A             | A     | A      | D        | -    | D              |
| Sperm                                          | A                   | A                   | -        | A           | -     | -         | -            | -     | A             | A     | D      | -        | -    | -              |
| Tanning                                        | A                   | A                   | -        | -           | -     | -         | -            | -     | A             | A     | D      | -        | -    | -              |
| Turbine                                        | A                   | A                   | A        | A           | -     | A         | -            | -     | A             | A     | D      | -        | D    | -              |
| Oleic Acid                                     | A                   | A                   | B        | B           | C     | C         | C            | A     | C             | D     | B      | D        | D    | D              |
| Oleum 25%                                      | -                   | -                   | -        | -           | -     | -         | -            | -     | A             | D     | D      | D        | -    | -              |
| Oleum                                          | -                   | A                   | B        | C           | C     | -         | B            | -     | D             | A     | C      | D        | D    | D              |
| Oxalic Acid (Cold)                             | A                   | B                   | C        | B           | C     | D         | D            | D     | A             | A     | B      | B        | A    | C              |
| Paraffin                                       | A                   | A                   | A        | -           | B     | B         | A            | A     | A             | A     | -      | -        | -    | -              |
| Pentane                                        | C                   | C                   | A        | A           | -     | B         | B            | A     | -             | A     | A      | B        | D    | D              |
| Perchloroethylene2                             | A                   | A                   | A        | C           | -     | B         | B            | -     | D             | A     | C      | D        | D    | D              |
| Petrolatum                                     | -                   | A                   | B        | B           | -     | C         | C            | A     | -             | A     | A      | B        | A    | D              |
| Phenol 10%                                     | A                   | A                   | A        | C           | -     | B         | D            | D     | -             | B     | D      | C        | D    | C              |
| Phenol (Carbolic Acid)                         | A                   | A                   | B        | B           | D     | D         | D            | D     | B             | A     | D      | D        | D    | D              |
| Phosphoric Acid (to 40% Solution)              | B                   | A                   | D        | D           | D     | D         | -            | D     | A             | A     | D      | D        | B    | C              |
| Phosphoric Acid (40-100% Solution)             | C                   | B                   | D        | D           | D     | D         | -            | D     | A             | A     | D      | D        | B    | C              |
| Phosphoric Acid (Crude)                        | D                   | C                   | D        | D           | D     | D         | D            | -     | A             | D     | D      | B        | -    | -              |
| Phosphoric Anhydride (Dry or Moist)            | A                   | A                   | -        | -           | D     | -         | -            | -     | D             | D     | D      | -        | A    | -              |
| Phosphoric Anhydride (Molten)                  | A                   | A                   | D        | D           | D     | -         | -            | A     | -             | D     | C      | D        | -    | D              |
| Photographic (Developer)                       | C                   | A                   | C        | -           | -     | D         | -            | -     | A             | A     | A      | A        | -    | -              |
| Phthalic Anhydride                             | A                   | B                   | B        | B           | -     | C         | C            | A     | -             | A     | C      | -        | -    | -              |
| Picric Acid                                    | A                   | A                   | C        | D           | D     | D         | D            | A     | -             | A     | A      | A        | -    | A              |
| Plating Solutions Antimony Plating 130°F       | -                   | A                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | A        | -    | -              |
| Arsenic Plating 110°F                          | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Brass Plating Regular Brass Bath 100°F         | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| High Speed Brass Bath 110°F                    | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Bronze Plating Copper-Cadmium Bronze Bath R.T. | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Copper-Tin Bronze Bath 160°F                   | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | B        | -    | -              |
| Platings (Cont.) Copper-Zinc Bronze Bath 100°F | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Cadmium Plating Cyanide Bath 90°F              | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Fluoborate Bath 100°F                          | -                   | A                   | -        | -           | -     | -         | -            | D     | A             | A     | B      | C        | -    | -              |
| Chromium Plating Chromic-Sulfuric Bath 130°F   | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | C     | D      | D        | -    | -              |
| Fluosilicate Bath 95°F                         | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | C     | D      | D        | -    | D              |
| Fluoride Bath 130°F                            | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | C     | D      | D        | -    | -              |
| Black Chrome Bath 115°F                        | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | C     | D      | D        | -    | -              |
| Barrel Chrome Bath 95°F                        | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | C     | D      | D        | -    | -              |
| Copper Plating (Cyanide)                       |                     |                     | A        | -           | -     | -         | -            |       |               | B     | -      | A        | -    | -              |
| Copper Strike Bath 120°F                       |                     |                     |          |             |       |           |              |       |               |       |        |          |      |                |
| Rochelle Salt Bath 150°F                       | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | B        | -    | -              |
| High Speed Bath 180°F                          | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | B        | -    | -              |

|                                             | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|---------------------------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Copper Plating (Acid)                       | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | A        | -    | -              |
| Copper Sulfate Bath R.T.                    | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | A        | -    | -              |
| Copper Fluoborate Bath 120°F                | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | A     | B      | C        | -    | -              |
| Copper (Misc.) Copper Pyrophosphate 140°F   | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Copper (Electroless) 140°F                  | -                   | -                   | -        | D           | -     | -         | -            | A     | A             | A     | D      | D        | -    | -              |
| Gold Plating Cyanide 150°F                  | -                   | A                   | -        | C           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Neutral 75°F                                | -                   | C                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Acid 75°F                                   | -                   | C                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Indium Sulfamate Plating R.T.               | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | A        | -    | -              |
| Iron Plating Ferrous Chloride Bath 190°F    | -                   | D                   | -        | -           | -     | -         | -            | D     | C             | A     | B      | D        | -    | -              |
| Ferrous Sulfate Bath 150°F                  | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | B        | -    | -              |
| Ferrous Am. Sulfate Bath 150°F              | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | B        | -    | -              |
| Sulfate-Chloride Bath 160°F                 | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | A     | B      | C        | -    | -              |
| Fluoborate Bath 145°F                       | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | A     | B      | C        | -    | -              |
| Sulfamate 140°F                             | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | A        | -    | -              |
| Lead Fluoborate Plating                     | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | A     | B      | C        | -    | -              |
| Nickel Plating Watts Type 115-160°F         | -                   | C                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| High Chloride 130-160°F                     | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | B        | -    | -              |
| Fluoborate 100-170°F                        | -                   | C                   | -        | D           | -     | -         | -            | D     | A             | A     | B      | C        | -    | -              |
| Sulfamate 100-140°F                         | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | A        | -    | -              |
| Electroless 200°F                           | -                   | -                   | -        | -           | -     | -         | -            | D     | D             | A     | D      | D        | -    | -              |
| Rhodium Plating 120°F                       | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | B        | -    | -              |
| Silver Plating 80-120°F                     | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Tin-Fluoborate Plating 100°F                | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | A     | B      | C        | -    | -              |
| Tine-Lead Plating 100°F                     | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | A     | B      | C        | -    | -              |
| Zinc Plating Acid Chloride 140°F            | -                   | D                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | A        | -    | -              |
| Acid Sulfate Bath 150°F                     | -                   | C                   | -        | -           | -     | -         | -            | D     | A             | A     | A      | B        | -    | -              |
| Platings (Cont'd) Acid Fluoborate Bath R.T. | -                   | -                   | -        | -           | -     | -         | -            | D     | A             | A     | B      | C        | -    | -              |
| Alkaline Cyanide Bath R.T.                  | -                   | -                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Potash                                      | A                   | -                   | C        | C           | -     | B         | -            | A     | A             | A     | A      | B        | -    | B              |
| Potassium Bicarbonate                       | A                   | -                   | C        | B           | -     | D         | -            | A     | A             | A     | A      | A        | -    | B              |
| Potassium Bromide                           | A                   | -                   | C        | C           | -     | D         | D            | C     | A             | A     | A      | A        | A    | B              |
| Potassium Carbonate                         | A                   | -                   | C        | C           | -     | B         | B            | A     | A             | A     | A      | B        | A    | -              |
| Potassium Chlorate                          | A                   | A                   | B        | B           | -     | B         | B            | D     | A             | A     | A      | A        | -    | B              |
| Potassium Chloride                          | A                   | A                   | B        | C           | C     | B         | B            | B     | A             | A     | A      | A        | A    | A              |
| Potassium Chromate                          | -                   | B                   | A        | A           | -     | A         | -            | -     | A             | A     | A      | -        | B    | -              |
| Potassium Cyanide Solutions                 | A                   | B                   | D        | D           | -     | B         | B            | A     | A             | B     | A      | A        | A    | A              |
| Potassium Dichromate                        | A                   | A                   | A        | C           | -     | B         | C            | D     | A             | B     | A      | A        | A    | A              |
| Potassium Ferrocyanide                      | A                   | -                   | C        | A           | -     | -         | C            | A     | -             | -     | D      | -        | -    | A              |
| Potassium Hydroxide (50%)                   | B                   | B                   | D        | D           | D     | C         | A            | A     | A             | D     | B      | A        | A    | C              |
| Potassium Nitrate                           | A                   | B                   | B        | B           | -     | -         | B            | C     | A             | B     | A      | A        | A    | A              |
| Potassium Permanganate                      | A                   | B                   | B        | B           | -     | B         | B            | D     | B             | B     | A      | A        | -    | B              |

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.





## Chemical Resistance Chart

### RATINGS - CHEMICAL EFFECT

**A:** No effect - Excellent    **B:** Minor effect - Good    **C:** Moderate effect - Fair    **D:** Severe effect - Not Recommended

|                                           | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|-------------------------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Potassium Sulfate                         | A                   | B                   | A        | B           | B     | B         | B            | C     | A             | A     | A      | A        | A    | C              |
| Potassium Sulfide                         | A                   | -                   | B        | B           | -     | B         | B            | -     | -             | -     | -      | -        | -    | -              |
| Propane (Liquified)1 2                    | A                   | -                   | A        | A           | A     | -         | B            | A     | D             | A     | A      | B        | D    | D              |
| Propylene Glycol                          | B                   | -                   | A        | B           | -     | B         | B            | B     | -             | A     | A      | C        | -    | -              |
| Pyridine                                  | C                   | -                   | B        | -           | -     | B         | A            | -     | B             | D     | D      | D        | B    | D              |
| Pyrogalllic Acid                          | A                   | A                   | B        | B           | -     | B         | B            | A     | -             | A     | A      | -        | -    | -              |
| Rosins                                    | A                   | A                   | A        | C           | -     | C         | A            | A     | -             | A     | -      | -        | -    | -              |
| Rum                                       | A                   | -                   | -        | -           | -     | -         | -            | A     | A             | A     | A      | A        | -    | -              |
| Rust Inhibitors                           | A                   | -                   | -        | A           | -     | A         | -            | -     | A             | A     | A      | C        | -    | -              |
| Salad Dressing                            | A                   | -                   | B        | B           | -     | D         | -            | A     | A             | A     | A      | -        | -    | -              |
| Sea Water                                 | A                   | C                   | C        | C           | -     | -         | D            | A     | A             | A     | A      | B        | A    | A              |
| Shellac (Bleached)                        | A                   | -                   | A        | A           | B     | B         | A            | A     | A             | -     | A      | -        | -    | -              |
| Shellac (Orange)                          | A                   | -                   | A        | A           | C     | C         | A            | A     | -             | A     | -      | -        | -    | -              |
| Silicone                                  | B                   | -                   | B        | A           | -     | -         | -            | A     | A             | A     | A      | A        | A    | A              |
| Silver Bromide                            | C                   | C                   | D        | -           | -     | -         | -            | -     | -             | -     | -      | -        | -    | -              |
| Silver Nitrate                            | A                   | B                   | D        | D           | -     | D         | D            | A     | A             | A     | C      | A        | C    | A              |
| Soap Solutions                            | A                   | A                   | C        | B           | -     | B         | A            | A     | A             | A     | A      | B        | -    | C              |
| Soda Ash (See Sodium Carbonate)           |                     |                     |          |             |       |           |              |       |               |       |        |          |      |                |
| Sodium Acetate                            | A                   | A                   | B        | B           | -     | C         | C            | A     | A             | D     | D      | C        | -    | A              |
| Sodium Aluminate                          | -                   | -                   | C        | B           | -     | -         | C            | A     | -             | A     | A      | A        | A    | B              |
| Sodium Bicarbonate                        | A                   | A                   | A        | B           | A     | C         | C            | A     | A             | A     | A      | A        | A    | A              |
| Sodium Bisulfate                          | A                   | -                   | D        | C           | C     | D         | D            | C     | A             | B     | A      | A        | -    | A              |
| Sodium Bisulfate                          | A                   | -                   | A        | C           | -     | D         | -            | D     | A             | A     | A      | A        | -    | A              |
| Sodium Borate                             | A                   | -                   | C        | A           | -     | C         | C            | A     | -             | A     | -      | A        | -    | -              |
| Sodium Carbonate                          | A                   | B                   | C        | B           | B     | B         | B            | A     | A             | A     | A      | A        | A    | A              |
| Sodium Chlorate                           | A                   | -                   | B        | B           | -     | -         | C            | A     | A             | A     | D      | A        | -    | A              |
| Sodium Chloride                           | A                   | C                   | C        | B           | C     | B         | C            | A     | A             | A     | A      | A        | A    | B              |
| Sodium Chromate                           | A                   | A                   | D        | B           | -     | B         | B            | A     | A             | B     | A      | A        | -    | -              |
| Sodium Cyanide                            | A                   | -                   | D        | D           | D     | B         | B            | C     | A             | A     | A      | A        | A    | A              |
| Sodium Fluoride                           | C                   | -                   | C        | C           | -     | D         | D            | A     | -             | B     | D      | D        | -    | D              |
| Sodium Hydrosulfite                       | -                   | -                   | A        | C           | -     | -         | -            | A     | -             | A     | -      | A        | -    | A              |
| Sodium Hydroxide (20%)                    | A                   | A                   | D        | C           | D     | A         | -            | C     | A             | A     | A      | B        | A    | A              |
| Sodium Hydroxide (50% Solution)           | A                   | B                   | D        | C           | D     | B         | -            | C     | A             | D     | D      | C        | -    | A              |
| Sodium Hydroxide (80% Solution)           | A                   | D                   | D        | C           | D     | C         | -            | C     | A             | B     | D      | C        | -    | B              |
| Sodium Hypochlorite (to 20%)              | C                   | C                   | C        | D           | D     | D         | -            | A     | D             | A     | C      | D        | B    | C              |
| Sodium Hypochlorite                       | -                   | A                   | D        | D           | -     | D         | D            | A     | A             | B     | B      | A        | -    | -              |
| Sodium Hyposulfate                        | A                   | A                   | D        | D           | -     | -         | -            | -     | -             | -     | -      | C        | -    | C              |
| Sodium Metaphosphate2                     | -                   | A                   | A        | C           | C     | B         | B            | A     | D             | A     | A      | B        | A    | A              |
| Sodium Metasilicate                       | -                   | A                   | B        | B           | -     | C         | C            | -     | -             | A     | A      | A        | -    | -              |
| Sodium Nitrate                            | A                   | A                   | B        | C           | A     | B         | A            | A     | D             | C     | B      | A        | C    | C              |
| Sodium Perborate                          | -                   | C                   | B        | C           | C     | B         | B            | A     | A             | A     | B      | B        | A    | C              |
| Sodium Peroxide                           | A                   | A                   | C        | C           | C     | D         | C            | D     | -             | A     | C      | B        | A    | C              |
| Sodium Polyphosphate (Mono, Di, Tribasic) | A                   | A                   | D        | C           | -     | -         | -            | -     | A             | A     | D      | A        | A    | A              |
| Sodium Silicate                           | A                   | B                   | C        | C           | C     | -         | B            | A     | A             | A     | A      | A        | A    | A              |
| Sodium Sulfate                            | A                   | A                   | B        | B           | B     | A         | B            | A     | A             | A     | A      | A        | A    | C              |
| Sodium Sulfide                            | A                   | B                   | D        | D           | D     | A         | B            | A     | A             | A     | C      | A        | A    | C              |
| Sodium Sulfide                            | C                   | C                   | C        | C           | -     | A         | -            | D     | -             | A     | A      | A        | -    | A              |
| Sodium Tetraborate                        | -                   | A                   | -        | -           | -     | -         | -            | -     | A             | A     | -      | -        | -    | -              |
| Sodium Thiosulphate ("Hypo")              | A                   | A                   | B        | D           | D     | C         | B            | A     | A             | A     | B      | A        | A    | C              |

|                                  | 304 Stainless Steel | 316 Stainless Steel | Aluminum | Cast Bronze | Brass | Cast Iron | Carbon Steel | Nylon | Polypropylene | Viton | Buna-N | Neoprene | EPDM | Natural Rubber |
|----------------------------------|---------------------|---------------------|----------|-------------|-------|-----------|--------------|-------|---------------|-------|--------|----------|------|----------------|
| Sorghum                          | A                   | A                   | -        | -           | -     | A         | -            | A     | -             | A     | A      | A        | -    | -              |
| Soy Sauce                        | A                   | A                   | A        | A           | -     | D         | -            | A     | -             | A     | A      | A        | -    | D              |
| Stannic Chloride                 | D                   | D                   | D        | D           | -     | D         | D            | A     | A             | A     | A      | A        | A    | A              |
| Stannic Fluoborate               | -                   | A                   | -        | -           | -     | D         | -            | -     | -             | A     | A      | A        | -    | -              |
| Stannous Chloride                | D                   | C                   | D        | D           | -     | D         | D            | D     | -             | B     | C      | D        | -    | A              |
| Starch                           | A                   | A                   | A        | B           | -     | C         | C            | A     | -             | A     | A      | A        | -    | -              |
| Stearic Acid2                    | A                   | A                   | B        | C           | C     | C         | C            | A     | D             | A     | B      | B        | B    | C              |
| Stoddard Solvent                 | A                   | A                   | A        | A           | A     | B         | B            | A     | D             | A     | B      | D        | D    | D              |
| Styrene                          | A                   | A                   | A        | A           | -     | -         | A            | -     | -             | B     | D      | D        | D    | D              |
| Sugar (Liquids)                  | A                   | A                   | A        | A           | -     | B         | B            | A     | A             | A     | A      | B        | -    | A              |
| Sulfate Liquors                  | C                   | C                   | B        | C           | -     | -         | -            | -     | A             | -     | -      | C        | -    | -              |
| Sulfur Chloride                  | D                   | D                   | D        | C           | D     | -         | -            | A     | D             | A     | D      | D        | D    | D              |
| Sulfur Dioxide2                  | A                   | A                   | A        | B           | -     | -         | -            | D     | D             | D     | D      | B        | A    | D              |
| Sulfur Dioxide (dry)             | A                   | A                   | A        | A           | C     | A         | B            | A     | -             | D     | -      | D        | -    | D              |
| Sulfur Trioxide (dry)            | A                   | C                   | A        | B           | -     | B         | B            | D     | -             | A     | D      | D        | B    | C              |
| Sulfuric Acid (to 10%)           | D                   | C                   | C        | D           | D     | D         | -            | D     | A             | A     | C      | D        | D    | C              |
| Sulfuric Acid 10%-75%2           | D                   | D                   | D        | D           | D     | D         | -            | D     | A             | A     | D      | D        | D    | D              |
| Sulfuric Acid 75%-100%           | -                   | D                   | -        | -           | D     | -         | -            | D     | B             | A     | D      | D        | -    | -              |
| Sulfurous Acid                   | C                   | B                   | C        | D           | -     | D         | D            | A     | A             | C     | B      | B        | B    | C              |
| Sulfuryl Chloride                | -                   | -                   | -        | -           | -     | -         | -            | -     | -             | -     | -      | -        | -    | -              |
| Syrup                            | A                   | A                   | A        | D           | -     | -         | -            | A     | A             | A     | A      | B        | -    | A              |
| Tallow                           | A                   | A                   | A        | -           | -     | -         | -            | A     | -             | A     | A      | -        | -    | -              |
| Tannic Acid                      | A                   | A                   | C        | B           | -     | C         | C            | D     | A             | A     | D      | A        | A    | A              |
| Tanning Liquors                  | A                   | A                   | C        | A           | -     | -         | -            | -     | A             | A     | C      | -        | -    | -              |
| Tartaric Acid                    | A                   | B                   | C        | A           | C     | D         | D            | A     | A             | A     | D      | A        | -    | A              |
| Tetrachlorethane                 | -                   | A                   | -        | -           | -     | -         | -            | A     | A             | A     | D      | -        | D    | D              |
| Tetrahydrofuran                  | A                   | A                   | D        | D           | -     | D         | A            | A     | C             | D     | D      | D        | B    | D              |
| Toluene, Toluol3                 | A                   | A                   | A        | A           | A     | A         | A            | A     | D             | C     | D      | D        | D    | D              |
| Tomato Juice                     | A                   | A                   | A        | C           | -     | C         | C            | A     | A             | A     | A      | A        | -    | -              |
| Trichlorethane                   | C                   | A                   | C        | C           | -     | C         | -            | -     | -             | A     | D      | D        | D    | D              |
| Trichlorethylene2                | A                   | A                   | B        | B           | A     | C         | B            | C     | D             | A     | D      | D        | D    | D              |
| Trichloropropane                 | -                   | A                   | -        | A           | -     | -         | -            | -     | -             | A     | A      | A        | -    | -              |
| Tricresylphosphate               | -                   | A                   | -        | A           | -     | -         | -            | -     | -             | B     | D      | D        | A    | -              |
| Triethylamine                    | -                   | -                   | -        | A           | -     | -         | -            | -     | -             | A     | A      | B        | -    | -              |
| Turpentine3                      | A                   | A                   | C        | B           | C     | B         | B            | A     | B             | A     | D      | D        | D    | D              |
| Urine                            | A                   | A                   | B        | C           | -     | B         | -            | A     | A             | A     | D      | A        | -    | -              |
| Vegetable Juice                  | A                   | A                   | A        | C           | -     | D         | -            | A     | -             | A     | A      | D        | -    | D              |
| Vinegar                          | A                   | A                   | D        | B           | B     | C         | D            | A     | -             | A     | C      | -        | -    | -              |
| Varnish (Use Viton for Aromatic) | A                   | A                   | A        | A           | B     | -         | C            | A     | A             | A     | B      | D        | -    | D              |
| Water, Acid, Mine                | A                   | A                   | C        | C           | D     | C         | -            | A     | A             | A     | A      | B        | -    | B              |
| Water, Distilled, Lab Grade 7    | A                   | A                   | B        | A           | -     | D         | -            | A     | A             | A     | A      | B        | A    | A              |
| Water, Fresh                     | A                   | A                   | A        | A           | C     | B         | D            | A     | A             | A     | A      | B        | A    | A              |
| Water, Salt                      | A                   | A                   | B        | B           | C     | D         | -            | A     | A             | A     | A      | B        | A    | A              |
| Weed Killers                     | A                   | A                   | C        | C           | -     | -         | -            | A     | -             | A     | B      | C        | -    | -              |
| Whey                             | A                   | A                   | B        | -           | -     | -         | -            | -     | -             | A     | A      | -        | -    | -              |
| Whiskey & Wines                  | A                   | A                   | D        | B           | B     | D         | D            | A     | A             | A     | A      | A        | A    | A              |
| White Liquor (Pulp Mill)         | A                   | A                   | -        | D           | -     | C         | -            | A     | A             | A     | A      | -        | -    | -              |
| White Water (Paper Mill)         | A                   | A                   | -        | A           | -     | -         | -            | -     | A             | A     | A      | -        | -    | -              |
| Xylene2                          | A                   | A                   | A        | A           | A     | B         | A            | D     | A             | D     | D      | D        | D    | D              |
| Zinc Chloride                    | D                   | B                   | D        | D           | D     | D         | D            | A     | A             | A     | A      | A        | A    | A              |
| Zinc Hydrosulphite               | -                   | A                   | D        | D           | -     | D         | -            | -     | -             | -     | A      | A        | A    | -              |
| Zinc Sulfate                     | A                   | A                   | D        | B           | C     | C         | D            | A     | A             | A     | A      | A        | A    | C              |

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

