

# Heavy Pattern 150# Stainless Fittings





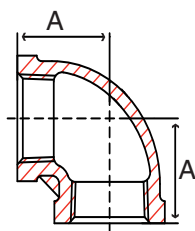
# Heavy Pattern 150# Stainless Fittings

## Specifications

-  branded
- Stainless castings conform to ASTM A351 ACI Grade CF8 (304) & ACI Grade CF8M (316)
- NPT threads conform to ASME B1.20.1
- Manufacturing facility is ISO 9001:2008 Certified
- Fittings meet applicable chemical & mechanical properties



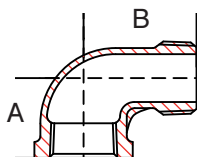
**SCI ProPak™ System**



**Fig. S3114E & S3116E - 90° Elbow**

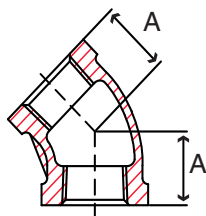
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | 304         | 316        |         | Inner   | Master |              |
| 1/8        | S3114E 001  | S3116E 001 | 0.71    | 120     | 480    | 0.05         |
| 1/4        | S3114E 002  | S3116E 002 | 0.77    | 100     | 400    | 0.08         |
| 3/8        | S3114E 003  | S3116E 003 | 0.94    | 50      | 200    | 0.12         |
| 1/2        | S3114E 004  | S3116E 004 | 1.16    | 30      | 120    | 0.19         |
| 3/4        | S3114E 006  | S3116E 006 | 1.26    | 18      | 72     | 0.30         |
| 1          | S3114E 010  | S3116E 010 | 1.44    | 10      | 40     | 0.52         |
| 1-1/4      | S3114E 012  | S3116E 012 | 1.73    | 4       | 16     | 0.71         |
| 1-1/2      | S3114E 014  | S3116E 014 | 1.91    | 3       | 12     | 1.07         |
| 2          | S3114E 020  | S3116E 020 | 2.24    | 2       | 8      | 1.45         |
| 2-1/2      | S3114E 024  | S3116E 024 | 2.70    | -       | 6      | 3.26         |
| 3          | S3114E 030  | S3116E 030 | 3.09    | -       | 3      | 4.66         |
| 4          | S3114E 040  | S3116E 040 | 3.82    | -       | 2      | 7.05         |

**Fig. S3114SE & S3116SE 90° Street Elbow**



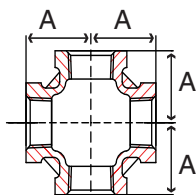
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | 304         | 316        |         |         | Inner   | Master |              |
| 1/8        | S3114SE001  | S3116SE001 | 0.69    | 1.00    | 150     | 600    | 0.04         |
| 1/4        | S3114SE002  | S3116SE002 | 0.83    | 1.18    | 100     | 400    | 0.07         |
| 3/8        | S3114SE003  | S3116SE003 | 0.91    | 1.52    | 50      | 200    | 0.11         |
| 1/2        | S3114SE004  | S3116SE004 | 1.12    | 1.69    | 32      | 128    | 0.20         |
| 3/4        | S3114SE006  | S3116SE006 | 1.24    | 1.83    | 12      | 48     | 0.29         |
| 1          | S3114SE010  | S3116SE010 | 1.48    | 2.09    | 8       | 32     | 0.52         |
| 1-1/4      | S3114SE012  | S3116SE012 | 1.77    | 2.48    | 4       | 16     | 0.72         |
| 1-1/2      | S3114SE014  | S3116SE014 | 1.83    | 2.72    | 2       | 4      | 0.92         |
| 2          | S3114SE020  | S3116SE020 | 2.38    | 3.35    | 2       | 8      | 1.79         |
| 2-1/2      | S3114SE024  | S3116SE024 | 2.62    | 4.13    | -       | 4      | 2.73         |
| 3          | S3114SE030  | S3116SE030 | 3.09    | 4.43    | -       | 3      | 3.87         |
| 4          | S3114SE040  | S3116SE040 | 3.82    | 5.04    | -       | 2      | 6.07         |

**Fig. S3114F & S3116F - 45° Elbow**

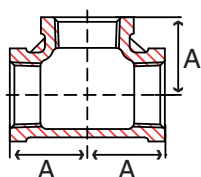


| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | 304         | 316        |         | Inner   | Master |              |
| 1/8        | S3114F 001  | S3116F 001 | 0.73    | 120     | 480    | 0.07         |
| 1/4        | S3114F 002  | S3116F 002 | 0.75    | 100     | 400    | 0.07         |
| 3/8        | S3114F 003  | S3116F 003 | 0.75    | 60      | 240    | 0.11         |
| 1/2        | S3114F 004  | S3116F 004 | 0.87    | 30      | 120    | 0.22         |
| 3/4        | S3114F 006  | S3116F 006 | 0.91    | 20      | 80     | 0.34         |
| 1          | S3114F 010  | S3116F 010 | 1.10    | 8       | 32     | 0.53         |
| 1-1/4      | S3114F 012  | S3116F 012 | 1.26    | 6       | 24     | 0.66         |
| 1-1/2      | S3114F 014  | S3116F 014 | 1.38    | 3       | 12     | 0.93         |
| 2          | S3114F 020  | S3116F 020 | 1.65    | 2       | 8      | 1.34         |
| 2-1/2      | S3114F 024  | S3116F 024 | 1.85    | -       | 6      | 2.87         |
| 3          | S3114F 030  | S3116F 030 | 2.05    | -       | 4      | 3.93         |
| 4          | S3114F 040  | S3116F 040 | 2.60    | -       | 2      | 5.91         |

**Fig. S3114X & S3116X - Cross**



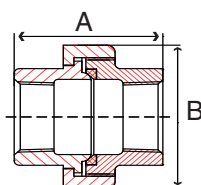
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | 304         | 316        |         | Inner   | Master |              |
| 1/8        | S3114X 001  | S3116X 001 | 0.71    | 50      | 200    | 0.11         |
| 1/4        | S3114X 002  | S3116X 002 | 0.77    | 50      | 200    | 0.18         |
| 3/8        | S3114X 003  | S3116X 003 | 0.94    | 24      | 96     | 0.31         |
| 1/2        | S3114X 004  | S3116X 004 | 1.16    | 10      | 40     | 0.43         |
| 3/4        | S3114X 006  | S3116X 006 | 1.26    | 8       | 32     | 0.62         |
| 1          | S3114X 010  | S3116X 010 | 1.44    | 4       | 16     | 1.05         |
| 1-1/4      | S3114X 012  | S3116X 012 | 1.73    | 3       | 12     | 1.49         |
| 1-1/2      | S3114X 014  | S3116X 014 | 1.91    | 2       | 8      | 1.90         |
| 2          | S3114X 020  | S3116X 020 | 2.24    | -       | 8      | 3.04         |
| 2-1/2      | S3114X 024  | S3116X 024 | 2.70    | -       | 2      | 5.44         |
| 3          | S3114X 030  | S3116X 030 | 3.09    | -       | 2      | 7.32         |
| 4          | S3114X 040  | S3116X 040 | 3.82    | -       | 1      | 11.34        |



**Fig. S3114T & S3116T - Tee**

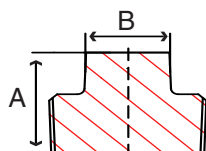
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | 304         | 316        |         | Inner   | Master |              |
| 1/8        | S3114T 001  | S3116T 001 | 0.71    | 75      | 300    | 0.09         |
| 1/4        | S3114T 002  | S3116T 002 | 0.77    | 70      | 280    | 0.11         |
| 3/8        | S3114T 003  | S3116T 003 | 0.94    | 40      | 160    | 0.18         |
| 1/2        | S3114T 004  | S3116T 004 | 1.16    | 15      | 60     | 0.29         |
| 3/4        | S3114T 006  | S3116T 006 | 1.26    | 12      | 48     | 0.46         |
| 1          | S3114T 010  | S3116T 010 | 1.44    | 6       | 24     | 0.68         |
| 1-1/4      | S3114T 012  | S3116T 012 | 1.73    | -       | 20     | 1.06         |
| 1-1/2      | S3114T 014  | S3116T 014 | 1.91    | -       | 12     | 1.39         |
| 2          | S3114T 020  | S3116T 020 | 2.24    | -       | 9      | 1.97         |
| 2-1/2      | S3114T 024  | S3116T 024 | 2.70    | -       | 5      | 4.54         |
| 3          | S3114T 030  | S3116T 030 | 3.09    | -       | 2      | 6.26         |
| 4          | S3114T 040  | S3116T 040 | 3.82    | -       | 1      | 9.43         |

**Fig. S3114U & S3116U - Union**



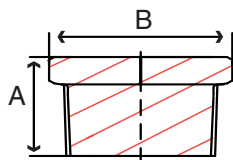
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | 304         | 316        |         |         | Inner   | Master |              |
| 1/8        | S3114U 001  | S3116U 001 | 1.44    | 1.14    | 45      | 180    | 0.22         |
| 1/4        | S3114U 002  | S3116U 002 | 1.44    | 1.14    | 45      | 180    | 0.19         |
| 3/8        | S3114U 003  | S3116U 003 | 1.48    | 1.42    | 24      | 96     | 0.30         |
| 1/2        | S3114U 004  | S3116U 004 | 1.63    | 1.61    | 16      | 64     | 0.37         |
| 3/4        | S3114U 006  | S3116U 006 | 1.85    | 1.93    | 12      | 48     | 0.53         |
| 1          | S3114U 010  | S3116U 010 | 1.97    | 2.28    | 8       | 32     | 0.85         |
| 1-1/4      | S3114U 012  | S3116U 012 | 2.05    | 2.68    | 4       | 16     | 1.13         |
| 1-1/2      | S3114U 014  | S3116U 014 | 2.28    | 3.03    | 2       | 8      | 1.56         |
| 2          | S3114U 020  | S3116U 020 | 2.48    | 3.62    | 2       | 8      | 2.37         |
| 2-1/2      | S3114U 024  | S3116U 024 | 2.89    | 4.29    | -       | 8      | 3.81         |
| 3          | S3114U 030  | S3116U 030 | 3.54    | 4.92    | -       | 4      | 5.34         |
| 4          | S3114U 040  | S3116U 040 | 3.94    | 6.18    | -       | 2      | 8.60         |

**Fig. S3114SP & S3116SP - Square Head Plug**



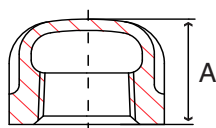
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | 304         | 316        |         |         | Inner   | Master |              |
| 1/8        | S3114SP001  | S3116SP001 | 0.71    | 0.28    | 600     | 2400   | 0.02         |
| 1/4        | S3114SP002  | S3116SP002 | 0.77    | 0.35    | 350     | 1400   | 0.03         |
| 3/8        | S3114SP003  | S3116SP003 | 0.79    | 0.38    | 250     | 1000   | 0.06         |
| 1/2        | S3114SP004  | S3116SP004 | 0.93    | 0.51    | 100     | 400    | 0.05         |
| 3/4        | S3114SP006  | S3116SP006 | 1.18    | 0.72    | 60      | 240    | 0.13         |
| 1          | S3114SP010  | S3116SP010 | 1.30    | 0.75    | 36      | 144    | 0.16         |
| 1-1/4      | S3114SP012  | S3116SP012 | 1.54    | 0.91    | 28      | 112    | 0.27         |
| 1-1/2      | S3114SP014  | S3116SP014 | 1.57    | 1.04    | 24      | 96     | 0.33         |
| 2          | S3114SP020  | S3116SP020 | 1.77    | 1.16    | 9       | 36     | 0.57         |
| 2-1/2      | S3114SP024  | S3116SP024 | 1.89    | 1.57    | 5       | 20     | 0.80         |
| 3          | S3114SP030  | S3116SP030 | 2.15    | 1.75    | 3       | 12     | 1.19         |
| 4          | S3114SP040  | S3116SP040 | 2.36    | 2.34    | -       | 10     | 2.12         |

**Fig. S3114HP & S3116HP - Hex Head Plug**

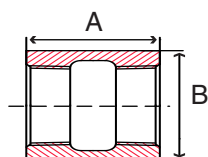


| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | 304         | 316        |         |         | Inner   | Master |              |
| 1/8        | S3114HP001  | S3116HP001 | 0.71    | 0.55    | 400     | 1600   | 0.04         |
| 1/4        | S3114HP002  | S3116HP002 | 0.91    | 0.67    | 300     | 1200   | 0.05         |
| 3/8        | S3114HP003  | S3116HP003 | 0.94    | 0.83    | 120     | 480    | 0.06         |
| 1/2        | S3114HP004  | S3116HP004 | 1.06    | 1.02    | 100     | 400    | 0.10         |
| 3/4        | S3114HP006  | S3116HP006 | 1.10    | 1.26    | 60      | 240    | 0.16         |
| 1          | S3114HP010  | S3116HP010 | 1.34    | 1.10    | 35      | 140    | 0.24         |
| 1-1/4      | S3114HP012  | S3116HP012 | 1.40    | 1.81    | 18      | 72     | 0.34         |
| 1-1/2      | S3114HP014  | S3116HP014 | 1.44    | 2.05    | 15      | 60     | 0.48         |
| 2          | S3114HP020  | S3116HP020 | 1.46    | 2.56    | 6       | 24     | 0.72         |
| 2-1/2      | S3114HP024  | S3116HP024 | 1.91    | 3.17    | 4       | 16     | 1.35         |
| 3          | S3114HP030  | S3116HP030 | 1.99    | 3.76    | -       | 12     | 1.92         |
| 4          | S3114HP040  | S3116HP040 | 2.03    | 4.76    | -       | 10     | 2.70         |

**Fig. S3114C & S3116C - Cap**

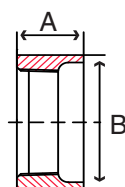


| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | 304         | 316        |         | Inner   | Master |              |
| 1/8        | S3114C 001  | S3116C 001 | 0.61    | 300     | 1200   | 0.03         |
| 1/4        | S3114C 002  | S3116C 002 | 0.87    | 150     | 600    | 0.07         |
| 3/8        | S3114C 003  | S3116C 003 | 0.96    | 80      | 320    | 0.12         |
| 1/2        | S3114C 004  | S3116C 004 | 1.10    | 60      | 240    | 0.16         |
| 3/4        | S3114C 006  | S3116C 006 | 1.10    | 40      | 160    | 0.23         |
| 1          | S3114C 010  | S3116C 010 | 1.28    | 18      | 72     | 0.36         |
| 1-1/4      | S3114C 012  | S3116C 012 | 1.30    | 12      | 48     | 0.53         |
| 1-1/2      | S3114C 014  | S3116C 014 | 1.42    | 9       | 36     | 0.64         |
| 2          | S3114C 020  | S3116C 020 | 1.48    | 4       | 16     | 1.00         |
| 2-1/2      | S3114C 024  | S3116C 024 | 1.71    | -       | 15     | 1.61         |
| 3          | S3114C 030  | S3116C 030 | 1.89    | -       | 12     | 2.90         |
| 4          | S3114C 040  | S3116C 040 | 2.03    | -       | 4      | 4.95         |



**Fig. S3114CP & S3116CP - Full Coupling**

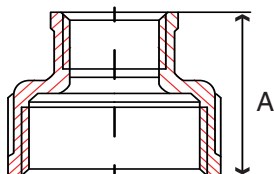
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | 304         | 316        |         |         | Inner   | Master |              |
| 1/8        | S3114CP001  | S3116CP001 | 0.79    | 0.55    | 200     | 800    | 0.04         |
| 1/4        | S3114CP002  | S3116CP002 | 1.06    | 0.73    | 120     | 480    | 0.07         |
| 3/8        | S3114CP003  | S3116CP003 | 1.10    | 0.85    | 100     | 400    | 0.07         |
| 1/2        | S3114CP004  | S3116CP004 | 1.40    | 1.05    | 60      | 240    | 0.16         |
| 3/4        | S3114CP006  | S3116CP006 | 1.48    | 1.25    | 30      | 120    | 0.19         |
| 1          | S3114CP010  | S3116CP010 | 1.69    | 1.56    | 16      | 64     | 0.37         |
| 1-1/4      | S3114CP012  | S3116CP012 | 1.89    | 1.91    | 12      | 48     | 0.53         |
| 1-1/2      | S3114CP014  | S3116CP014 | 1.89    | 2.17    | 12      | 48     | 0.65         |
| 2          | S3114CP020  | S3116CP020 | 2.20    | 2.62    | 4       | 16     | 0.99         |
| 2-1/2      | S3114CP024  | S3116CP024 | 2.56    | 3.33    | -       | 8      | 2.07         |
| 3          | S3114CP030  | S3116CP030 | 2.80    | 3.96    | -       | 6      | 2.77         |
| 4          | S3114CP040  | S3116CP040 | 3.27    | 5.10    | -       | 3      | 5.11         |
| 6          | S3114CP060  | S3116CP060 | 3.94    | 7.06    | -       | 1      | 7.95         |



**Fig. S3114HC & S3116HC - Half Coupling**

| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | 304         | 316        |         |         | Inner   | Master |              |
| 1/8        | S3114HC001  | S3116HC001 | 0.43    | 0.55    | 400     | 1600   | 0.02         |
| 1/4        | S3114HC002  | S3116HC002 | 0.51    | 0.73    | 300     | 1200   | 0.03         |
| 3/8        | S3114HC003  | S3116HC003 | 0.55    | 0.85    | 200     | 800    | 0.03         |
| 1/2        | S3114HC004  | S3116HC004 | 0.71    | 1.05    | 100     | 400    | 0.09         |
| 3/4        | S3114HC006  | S3116HC006 | 0.77    | 1.25    | 60      | 240    | 0.09         |
| 1          | S3114HC010  | S3116HC010 | 0.83    | 1.56    | 35      | 140    | 0.18         |
| 1-1/4      | S3114HC012  | S3116HC012 | 0.94    | 1.91    | 24      | 96     | 0.24         |
| 1-1/2      | S3114HC014  | S3116HC014 | 0.94    | 2.17    | 20      | 80     | 0.31         |
| 2          | S3114HC020  | S3116HC020 | 1.10    | 2.62    | 8       | 32     | 0.44         |
| 2-1/2      | S3114HC024  | S3116HC024 | 1.30    | 3.33    | 4       | 16     | 1.01         |
| 3          | S3114HC030  | S3116HC030 | 1.42    | 3.96    | -       | 12     | 1.37         |
| 4          | S3114HC040  | S3116HC040 | 1.65    | 5.10    | -       | 6      | 2.56         |
| 6          | S3114HC060  | S3116HC060 | 1.97    | 7.06    | -       | 1      | 3.95         |

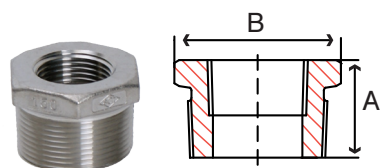
**Fig. S3114RC & S3116RC - Reducing Coupling**



HYV PATTERN 150#

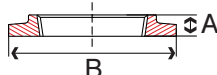
| Size<br>in    | Part Number   |               | A<br>in | Packing |        | Weight<br>lb |
|---------------|---------------|---------------|---------|---------|--------|--------------|
|               | 304           | 316           |         | Inner   | Master |              |
| 1/4 x 1/8     | S3114RC002001 | S3116RC002001 | 1.12    | 150     | 600    | 0.07         |
| 3/8 x 1/8     | S3114RC003001 | S3116RC003001 | 1.59    | 60      | 240    | 0.13         |
| 3/8 x 1/4     | S3114RC003002 | S3116RC003002 | 1.59    | 60      | 240    | 0.15         |
| 1/2 x 1/8     | S3114RC004001 | S3116RC004001 | 1.75    | 40      | 160    | 0.16         |
| 1/2 x 1/4     | S3114RC004002 | S3116RC004002 | 1.75    | 40      | 160    | 0.18         |
| 1/2 x 3/8     | S3114RC004003 | S3116RC004003 | 1.75    | 40      | 160    | 0.20         |
| 3/4 x 1/8     | S3114RC006001 | S3116RC006001 | 1.75    | 24      | 96     | 0.21         |
| 3/4 x 1/4     | S3114RC006002 | S3116RC006002 | 1.75    | 24      | 96     | 0.21         |
| 3/4 x 3/8     | S3114RC006003 | S3116RC006003 | 1.75    | 24      | 96     | 0.23         |
| 3/4 x 1/2     | S3114RC006004 | S3116RC006004 | 1.75    | 24      | 96     | 0.26         |
| 1 x 1/8       | S3114RC010001 | S3116RC010001 | 1.97    | 12      | 48     | 0.35         |
| 1 x 1/4       | S3114RC010002 | S3116RC010002 | 1.97    | 12      | 48     | 0.36         |
| 1 x 3/8       | S3114RC010003 | S3116RC010003 | 1.97    | 12      | 48     | 0.37         |
| 1 x 1/2       | S3114RC010004 | S3116RC010004 | 1.97    | 12      | 48     | 0.36         |
| 1 x 3/4       | S3114RC010006 | S3116RC010006 | 1.97    | 12      | 48     | 0.42         |
| 1-1/4 x 1/8   | S3114RC012001 | S3116RC012001 | 1.97    | 12      | 48     | 0.45         |
| 1-1/4 x 1/4   | S3114RC012002 | S3116RC012002 | 1.97    | 12      | 48     | 0.51         |
| 1-1/4 x 3/8   | S3114RC012003 | S3116RC012003 | 1.97    | 12      | 48     | 0.48         |
| 1-1/4 x 1/2   | S3114RC012004 | S3116RC012004 | 1.97    | 12      | 48     | 0.51         |
| 1-1/4 x 3/4   | S3114RC012006 | S3116RC012006 | 1.97    | 12      | 48     | 0.53         |
| 1-1/4 x 1     | S3114RC012010 | S3116RC012010 | 1.97    | 12      | 48     | 0.62         |
| 1-1/2 x 1/8   | S3114RC014001 | S3116RC014001 | 2.26    | 8       | 32     | 0.59         |
| 1-1/2 x 1/4   | S3114RC014002 | S3116RC014002 | 2.26    | 8       | 32     | 0.59         |
| 1-1/2 x 3/8   | S3114RC014003 | S3116RC014003 | 2.26    | 8       | 32     | 0.62         |
| 1-1/2 x 1/2   | S3114RC014004 | S3116RC014004 | 2.26    | 8       | 32     | 0.61         |
| 1-1/2 x 3/4   | S3114RC014006 | S3116RC014006 | 2.26    | 8       | 32     | 0.66         |
| 1-1/2 x 1     | S3114RC014010 | S3116RC014010 | 2.26    | 4       | 16     | 0.70         |
| 1-1/2 x 1-1/4 | S3114RC014012 | S3116RC014012 | 2.26    | 4       | 16     | 0.75         |
| 2 x 1/8       | S3114RC020001 | S3116RC020001 | 2.64    | 4       | 16     | 0.99         |
| 2 x 1/4       | S3114RC020002 | S3116RC020002 | 2.64    | 4       | 16     | 0.93         |
| 2 x 3/8       | S3114RC020003 | S3116RC020003 | 2.64    | 4       | 16     | 0.96         |
| 2 x 1/2       | S3114RC020004 | S3116RC020004 | 2.64    | 4       | 16     | 0.98         |
| 2 x 3/4       | S3114RC020006 | S3116RC020006 | 2.64    | 4       | 16     | 1.03         |
| 2 x 1         | S3114RC020010 | S3116RC020010 | 2.64    | 4       | 16     | 1.07         |
| 2 x 1-1/4     | S3114RC020012 | S3116RC020012 | 2.64    | 4       | 16     | 1.12         |
| 2 x 1-1/2     | S3114RC020014 | S3116RC020014 | 2.64    | 2       | 8      | 1.13         |
| 2-1/2 x 1/2   | S3114RC024004 | S3116RC024004 | 2.95    | -       | 16     | 1.68         |
| 2-1/2 x 3/4   | S3114RC024006 | S3116RC024006 | 2.95    | -       | 16     | 1.60         |
| 2-1/2 x 1     | S3114RC024010 | S3116RC024010 | 2.95    | -       | 16     | 1.68         |
| 2-1/2 x 1-1/4 | S3114RC024012 | S3116RC024012 | 2.95    | -       | 16     | 1.73         |
| 2-1/2 x 1-1/2 | S3114RC024014 | S3116RC024014 | 2.95    | -       | 16     | 1.78         |
| 2-1/2 x 2     | S3114RC024020 | S3116RC024020 | 2.95    | -       | 9      | 1.92         |
| 3 x 3/4       | S3114RC030006 | S3116RC030006 | 3.27    | -       | 9      | 2.71         |
| 3 x 1         | S3114RC030010 | S3116RC030010 | 3.27    | -       | 9      | 2.68         |
| 3 x 1-1/4     | S3114RC030012 | S3116RC030012 | 3.27    | -       | 9      | 2.79         |
| 3 x 1-1/2     | S3114RC030014 | S3116RC030014 | 3.27    | -       | 9      | 2.73         |
| 3 x 2         | S3114RC030020 | S3116RC030020 | 3.11    | -       | 9      | 2.84         |
| 3 x 2-1/2     | S3114RC030024 | S3116RC030024 | 3.27    | -       | 6      | 3.10         |
| 4 x 1         | S3114RC040010 | S3116RC040010 | 3.82    | -       | 3      | 4.73         |
| 4 x 1-1/2     | S3114RC040014 | S3116RC040014 | 3.82    | -       | 3      | 4.86         |
| 4 x 2         | S3114RC040020 | S3116RC040020 | 3.82    | -       | 3      | 5.03         |
| 4 x 2-1/2     | S3114RC040024 | S3116RC040024 | 3.82    | -       | 3      | 5.13         |
| 4 x 3         | S3114RC040030 | S3116RC040030 | 3.82    | -       | 3      | 5.56         |

**Fig. S3114HB & S3116HB - Hex Bushing**



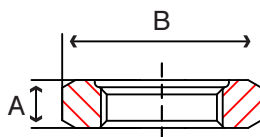
| Size<br>in    | Part Number   |               | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|---------------|---------------|---------------|---------|---------|---------|--------|--------------|
|               | 304           | 316           |         |         | Inner   | Master |              |
| 1/4 x 1/8     | S3114HB002001 | S3116HB002001 | 0.89    | 0.69    | 300     | 1200   | 0.04         |
| 3/8 x 1/8     | S3114HB003001 | S3116HB003001 | 0.91    | 0.87    | 120     | 480    | 0.07         |
| 3/8 x 1/4     | S3114HB003002 | S3116HB003002 | 0.91    | 0.87    | 120     | 480    | 0.05         |
| 1/2 x 1/8     | S3114HB004001 | S3116HB004001 | 0.99    | 1.00    | 100     | 400    | 0.09         |
| 1/2 x 1/4     | S3114HB004002 | S3116HB004002 | 0.99    | 1.00    | 100     | 400    | 0.09         |
| 1/2 x 3/8     | S3114HB004003 | S3116HB004003 | 0.99    | 1.00    | 100     | 400    | 0.05         |
| 3/4 x 1/8     | S3114HB006001 | S3116HB006001 | 1.02    | 1.24    | 60      | 240    | 0.16         |
| 3/4 x 1/4     | S3114HB006002 | S3116HB006002 | 1.02    | 1.24    | 60      | 240    | 0.15         |
| 3/4 x 3/8     | S3114HB006003 | S3116HB006003 | 1.02    | 1.24    | 60      | 240    | 0.15         |
| 3/4 x 1/2     | S3114HB006004 | S3116HB006004 | 1.02    | 1.24    | 60      | 240    | 0.13         |
| 1 x 1/8       | S3114HB010001 | S3116HB010001 | 1.30    | 1.52    | 36      | 144    | 0.26         |
| 1 x 1/4       | S3114HB010002 | S3116HB010002 | 1.30    | 1.52    | 36      | 144    | 0.25         |
| 1 x 3/8       | S3114HB010003 | S3116HB010003 | 1.30    | 1.52    | 36      | 144    | 0.24         |
| 1 x 1/2       | S3114HB010004 | S3116HB010004 | 1.30    | 1.52    | 36      | 144    | 0.22         |
| 1 x 3/4       | S3114HB010006 | S3116HB010006 | 1.30    | 1.52    | 36      | 144    | 0.17         |
| 1-1/4 x 1/8   | S3114HB012001 | S3116HB012001 | 1.30    | 1.81    | 18      | 72     | 0.35         |
| 1-1/4 x 1/4   | S3114HB012002 | S3116HB012002 | 1.30    | 1.81    | 18      | 72     | 0.36         |
| 1-1/4 x 3/8   | S3114HB012003 | S3116HB012003 | 1.30    | 1.81    | 18      | 72     | 0.35         |
| 1-1/4 x 1/2   | S3114HB012004 | S3116HB012004 | 1.30    | 1.81    | 18      | 72     | 0.35         |
| 1-1/4 x 3/4   | S3114HB012006 | S3116HB012006 | 1.30    | 1.81    | 18      | 72     | 0.28         |
| 1-1/4 x 1     | S3114HB012010 | S3116HB012010 | 1.30    | 1.81    | 18      | 72     | 0.26         |
| 1-1/2 x 1/4   | S3114HB014002 | S3116HB014002 | 1.38    | 2.03    | 18      | 72     | 0.52         |
| 1-1/2 x 3/8   | S3114HB014003 | S3116HB014003 | 1.38    | 2.03    | 18      | 72     | 0.52         |
| 1-1/2 x 1/2   | S3114HB014004 | S3116HB014004 | 1.38    | 2.03    | 18      | 72     | 0.51         |
| 1-1/2 x 3/4   | S3114HB014006 | S3116HB014006 | 1.38    | 2.03    | 18      | 72     | 0.49         |
| 1-1/2 x 1     | S3114HB014010 | S3116HB014010 | 1.38    | 2.03    | 18      | 72     | 0.45         |
| 1-1/2 x 1-1/4 | S3114HB014012 | S3116HB014012 | 1.38    | 2.03    | 18      | 72     | 0.34         |
| 2 x 1/4       | S3114HB020002 | S3116HB020002 | 1.42    | 2.46    | 9       | 36     | 0.77         |
| 2 x 3/8       | S3114HB020003 | S3116HB020003 | 1.42    | 2.46    | 9       | 36     | 0.80         |
| 2 x 1/2       | S3114HB020004 | S3116HB020004 | 1.42    | 2.46    | 9       | 36     | 0.77         |
| 2 x 3/4       | S3114HB020006 | S3116HB020006 | 1.42    | 2.46    | 9       | 36     | 0.75         |
| 2 x 1         | S3114HB020010 | S3116HB020010 | 1.42    | 2.46    | 9       | 36     | 0.77         |
| 2 x 1-1/4     | S3114HB020012 | S3116HB020012 | 1.93    | 3.15    | 9       | 36     | 0.70         |
| 2 x 1-1/2     | S3114HB020014 | S3116HB020014 | 1.93    | 3.15    | 9       | 36     | 0.57         |
| 2-1/2 x 1/2   | S3114HB024004 | S3116HB024004 | 1.93    | 3.15    | 4       | 16     | 1.26         |
| 2-1/2 x 3/4   | S3114HB024006 | S3116HB024006 | 1.93    | 3.15    | 4       | 16     | 1.32         |
| 2-1/2 x 1     | S3114HB024010 | S3116HB024010 | 1.93    | 3.15    | 4       | 16     | 1.40         |
| 2-1/2 x 1-1/4 | S3114HB024012 | S3116HB024012 | 1.93    | 3.15    | 4       | 16     | 1.40         |
| 2-1/2 x 1-1/2 | S3114HB024014 | S3116HB024014 | 1.93    | 3.15    | 4       | 16     | 1.23         |
| 2-1/2 x 2     | S3114HB024020 | S3116HB024020 | 1.93    | 3.15    | 4       | 16     | 0.99         |
| 3 x 1/2       | S3114HB030004 | S3116HB030004 | 1.95    | 3.76    | 3       | 12     | 2.12         |
| 3 x 3/4       | S3114HB030006 | S3116HB030006 | 1.95    | 3.76    | 3       | 12     | 2.08         |
| 3 x 1         | S3114HB030010 | S3116HB030010 | 1.95    | 3.76    | 3       | 12     | 2.17         |
| 3 x 1-1/4     | S3114HB030012 | S3116HB030012 | 1.95    | 3.76    | 3       | 12     | 2.20         |
| 3 x 1-1/2     | S3114HB030014 | S3116HB030014 | 1.95    | 3.76    | 3       | 12     | 2.10         |
| 3 x 2         | S3114HB030020 | S3116HB030020 | 1.95    | 3.76    | 3       | 12     | 1.90         |
| 3 x 2-1/2     | S3114HB030024 | S3116HB030024 | 1.95    | 3.76    | 3       | 12     | 1.61         |
| 4 x 1         | S3114HB040010 | S3116HB040010 | 2.01    | 4.74    | -       | 8      | 3.64         |
| 4 x 1-1/4     | S3114HB040012 | S3116HB040012 | 2.01    | 4.74    | -       | 8      | 3.50         |
| 4 x 1-1/2     | S3114HB040014 | S3116HB040014 | 2.01    | 4.74    | -       | 8      | 3.61         |
| 4 x 2         | S3114HB040020 | S3116HB040020 | 2.01    | 4.74    | -       | 8      | 3.52         |
| 4 x 2-1/2     | S3114HB040024 | S3116HB040024 | 2.01    | 4.74    | -       | 8      | 3.40         |
| 4 x 3         | S3114HB040030 | S3116HB040030 | 2.01    | 4.74    | -       | 8      | 2.83         |

**Fig. S3616WS - Weld Spud**



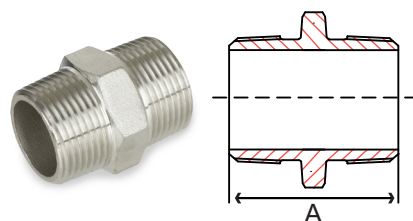
| Size<br>in | Part Number | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|---------|---------|---------|--------|--------------|
|            | 316         |         |         | Inner   | Master |              |
| 1/4        | S3616WS002  | 0.50    | 1.50    | -       | 1      | 0.05         |
| 3/8        | S3616WS003  | 0.50    | 1.62    | -       | 1      | 0.06         |
| 1/2        | S3616WS004  | 0.59    | 1.75    | -       | 1      | 0.1          |
| 3/4        | S3616WS006  | 0.65    | 1.93    | -       | 1      | 0.2          |
| 1          | S3616WS010  | 0.78    | 2.18    | -       | 1      | 0.2          |
| 1-1/4      | S3616WS012  | 0.75    | 2.68    | -       | 1      | 0.3          |
| 1-1/2      | S3616WS014  | 0.87    | 3.00    | -       | 1      | 0.4          |
| 2          | S3616WS020  | 0.93    | 3.50    | -       | 1      | 0.6          |
| 2-1/2      | S3616WS024  | 1.00    | 4.06    | -       | 1      | 1.1          |
| 3          | S3616WS030  | 1.00    | 4.62    | -       | 1      | 1.3          |
| 4          | S3616WS040  | 1.12    | 5.81    | -       | 1      | 2.6          |

**Fig. S3314LN & S3316LN - Lock Nut**



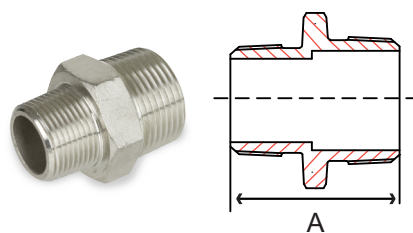
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | 304         | 316        |         |         | Inner   | Master |              |
| 1/8        | S3314LN001  | S3316LN001 | 0.25    | 0.68    | -       | 1      | 0.03         |
| 1/4        | S3314LN002  | S3316LN002 | 0.28    | 0.75    | -       | 1      | 0.03         |
| 3/8        | S3314LN003  | S3316LN003 | 0.30    | 1.00    | -       | 1      | 0.05         |
| 1/2        | S3314LN004  | S3316LN004 | 0.30    | 1.19    | -       | 1      | 0.06         |
| 3/4        | S3314LN006  | S3316LN006 | 0.36    | 1.35    | -       | 1      | 0.1          |
| 1          | S3314LN010  | S3316LN010 | 0.35    | 1.70    | -       | 1      | 0.1          |
| 1-1/4      | S3314LN012  | S3316LN012 | 0.46    | 2.05    | -       | 1      | 0.2          |
| 1-1/2      | S3314LN014  | S3316LN014 | 0.46    | 2.29    | -       | 1      | 0.3          |
| 2          | S3314LN020  | S3316LN020 | 0.52    | 2.83    | -       | 1      | 0.4          |
| 2-1/2      | S3314LN024  | S3316LN024 | 0.58    | 3.56    | -       | 1      | 0.8          |
| 3          | S3314LN030  | S3316LN030 | 0.67    | 4.06    | -       | 1      | 1.3          |
| 4          | S3314LN040  | S3316LN040 | 0.71    | 5.04    | -       | 1      | 2.0          |





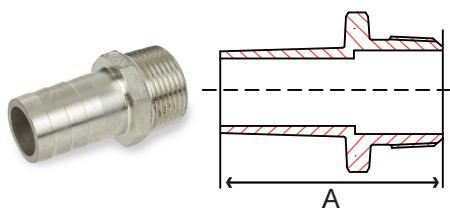
**Fig. S8346HN - 316 Hex Nipple**

| Diameter<br>in | Part Number<br>316 | A<br>in | Packing |        | Weight<br>lb |
|----------------|--------------------|---------|---------|--------|--------------|
|                |                    |         | Inner   | Master |              |
| 1/8            | S8346HN001         | 1.30    | 50      | 200    | 0.02         |
| 1/4            | S8346HN002         | 1.30    | 50      | 200    | 0.04         |
| 3/8            | S8346HN003         | 1.38    | 50      | 200    | 0.08         |
| 1/2            | S8346HN004         | 1.67    | 50      | 200    | 0.1          |
| 3/4            | S8346HN006         | 1.81    | 25      | 100    | 0.1          |
| 1              | S8346HN010         | 1.97    | 25      | 100    | 0.3          |
| 1 1/4          | S8346HN012         | 2.28    | -       | 50     | 0.4          |
| 1 1/2          | S8346HN014         | 2.36    | -       | 50     | 0.6          |
| 2              | S8346HN020         | 2.70    | -       | 20     | 0.9          |



**Fig. S8346RH - 316 Reducing Hex Nipple**

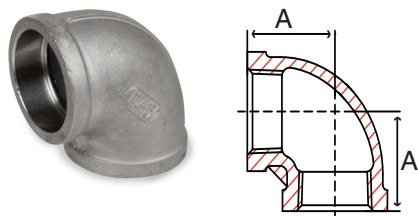
| Diameter<br>in | Part Number<br>316 | A<br>in | Packing |        | Weight<br>lb |
|----------------|--------------------|---------|---------|--------|--------------|
|                |                    |         | Inner   | Master |              |
| 1/4 x 1/8      | S8346RH002001      | 1.30    | 50      | 200    | 0.04         |
| 3/8 x 1/4      | S8346RH003002      | 1.38    | 50      | 200    | 0.08         |
| 1/2 x 3/8      | S8346RH004003      | 1.67    | 50      | 200    | 0.1          |
| 3/4 x 1/2      | S8346RH006004      | 1.81    | 25      | 100    | 0.1          |
| 1 x 3/4        | S8346RH010006      | 1.97    | 25      | 100    | 0.3          |
| 1-1/4 x 1      | S8346RH012010      | 2.28    | -       | 50     | 0.4          |
| 1-1/2 x 1-1/4  | S8346RH014012      | 2.36    | -       | 50     | 0.6          |
| 2 x 1-1/2      | S8346RH020014      | 2.70    | -       | 20     | 0.9          |



**Fig. S8346KN - 316 King Nipple Hose x Threaded**

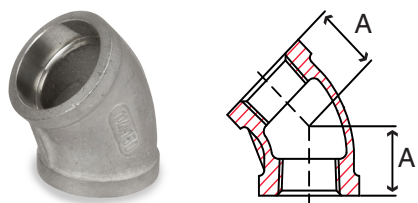
| Diameter<br>in | Part Number<br>316 | A<br>in | Packing |        | Weight<br>lb |
|----------------|--------------------|---------|---------|--------|--------------|
|                |                    |         | Inner   | Master |              |
| 1/8            | S8346KN001         | 1.57    | 25      | 100    | 0.02         |
| 1/4            | S8346KN002         | 1.77    | 25      | 100    | 0.05         |
| 3/8            | S8346KN003         | 1.97    | 25      | 100    | 0.07         |
| 1/2            | S8346KN004         | 2.36    | 25      | 100    | 0.1          |
| 3/4            | S8346KN006         | 2.56    | 25      | 100    | 0.2          |
| 1              | S8346KN010         | 2.95    | -       | 50     | 0.3          |
| 1 1/4          | S8346KN012         | 3.35    | -       | 40     | 0.5          |
| 1 1/2          | S8346KN014         | 3.54    | -       | 40     | 0.9          |
| 2              | S8346KN020         | 3.94    | -       | 20     | 1.3          |
| 2-1/2          | S8346KN024         | 4.72    | -       | 12     | 1.7          |
| 3              | S8346KN030         | 5.12    | -       | 5      | 2.0          |
| 4              | S8346KN040         | 5.51    | -       | 5      | 4.6          |

**Fig. S3714E & S3716E - 90° Elbow**



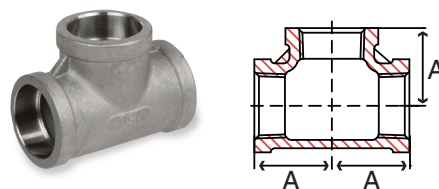
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | 304         | 316        |         | Inner   | Master |              |
| 1/2        | S3714E 004  | S3716E 004 | 1.06    | 20      | 80     | 0.3          |
| 3/4        | S3714E 006  | S3716E 006 | 1.24    | 15      | 60     | 0.5          |
| 1          | S3714E 010  | S3716E 010 | 1.42    | 5       | 20     | 0.9          |
| 1-1/4      | S3714E 012  | S3716E 012 | 1.65    | 5       | 20     | 1.3          |
| 1-1/2      | S3714E 014  | S3716E 014 | 1.89    | 2       | 8      | 1.6          |
| 2          | S3714E 020  | S3716E 020 | 2.20    | 2       | 8      | 2.2          |
| 2-1/2      | S3714E 024  | S3716E 024 | 2.68    | -       | 1      | 4.3          |
| 3          | S3714E 030  | S3716E 030 | 3.03    | -       | 1      | 6.3          |

**Fig. S3714F & S3716F - 45° Elbow**



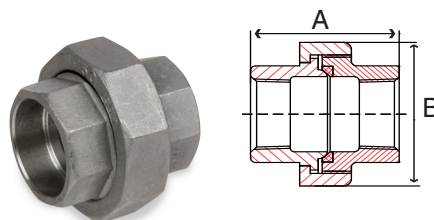
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | 304         | 316        |         | Inner   | Master |              |
| 1/2        | S3714F 004  | S3716F 004 | 1.06    | 30      | 120    | 0.2          |
| 3/4        | S3714F 006  | S3716F 006 | 1.24    | 20      | 80     | 0.4          |
| 1          | S3714F 010  | S3716F 010 | 1.42    | 10      | 40     | 0.6          |
| 1-1/4      | S3714F 012  | S3716F 012 | 1.65    | 5       | 20     | 1.0          |
| 1-1/2      | S3714F 014  | S3716F 014 | 1.89    | 4       | 16     | 1.5          |
| 2          | S3714F 020  | S3716F 020 | 2.20    | 2       | 8      | 2.0          |

**Fig. S3714T & S3716T - Tee**



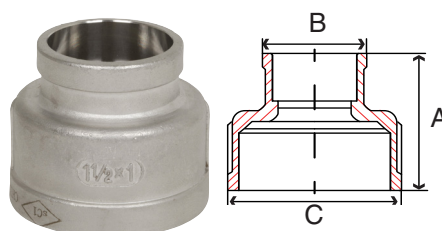
| Size<br>in | Part Number |            | A<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|--------|--------------|
|            | 304         | 316        |         | Inner   | Master |              |
| 1/2        | S3714T 004  | S3716T 004 | 1.06    | 20      | 80     | 0.4          |
| 3/4        | S3714T 006  | S3716T 006 | 1.24    | 10      | 40     | 0.7          |
| 1          | S3714T 010  | S3716T 010 | 1.42    | 5       | 20     | 1.1          |
| 1-1/4      | S3714T 012  | S3716T 012 | 1.65    | 2       | 8      | 1.9          |
| 1-1/2      | S3714T 014  | S3716T 014 | 1.89    | 2       | 8      | 2.1          |
| 2          | S3714T 020  | S3716T 020 | 2.20    | -       | 1      | 3.3          |
| 2-1/2      | S3714T 024  | S3716T 024 | 2.68    | -       | 1      | 5.9          |
| 3          | S3714T 030  | S3716T 030 | 3.03    | -       | 1      | 9.3          |

**Fig. S3714U & S3716U - Union**



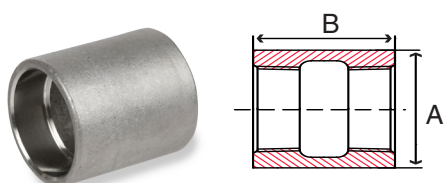
| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | 304         | 316        |         |         | Inner   | Master |              |
| 1/2        | S3714U 004  | S3716U 004 | 1.46    | 1.46    | 20      | 80     | 0.4          |
| 3/4        | S3714U 006  | S3716U 006 | 1.56    | 1.81    | 10      | 40     | 0.5          |
| 1          | S3714U 010  | S3716U 010 | 1.85    | 2.05    | 5       | 20     | 0.9          |
| 1-1/4      | S3714U 012  | S3716U 012 | 2.05    | 2.52    | 2       | 8      | 1.3          |
| 1-1/2      | S3714U 014  | S3716U 014 | 2.19    | 2.76    | 2       | 8      | 2.0          |
| 2          | S3714U 020  | S3716U 020 | 2.50    | 3.39    | 2       | 8      | 3.0          |

**Fig. 3714RC & 3716RC - Reducing Coupling**



| Size<br>in    | Part Number   |               | A<br>in | B<br>in | C<br>in | Packing |        | Weight<br>lb |
|---------------|---------------|---------------|---------|---------|---------|---------|--------|--------------|
|               | 304           | 316           |         |         |         | Inner   | Master |              |
| 3/4 x 1/2     | S3714RC006004 | S3716RC006004 | 1.42    | 1.06    | 1.26    | 15      | 60     | 0.3          |
| 1 x 1/2       | S3714RC010004 | S3716RC010004 | 1.54    | 1.06    | 1.57    | 15      | 60     | 0.6          |
| 1 x 3/4       | S3714RC010006 | S3716RC010006 | 1.57    | 1.26    | 1.57    | 15      | 60     | 0.6          |
| 1-1/4 x 1     | S3714RC012010 | S3716RC012010 | 1.77    | 1.57    | 1.93    | 10      | 40     | 0.7          |
| 1-1/2 x 1     | S3714RC014010 | S3716RC014010 | 1.85    | 1.54    | 2.17    | 10      | 40     | 0.8          |
| 1-1/2 x 1-1/4 | S3714RC014012 | S3716RC014012 | 1.93    | 1.89    | 2.17    | 10      | 40     | 0.8          |
| 2 x 1         | S3714RC020010 | S3716RC020010 | 1.93    | 1.54    | 2.68    | 2       | 8      | 1.6          |
| 2 x 1-1/2     | S3714RC020014 | S3716RC020014 | 2.01    | 2.17    | 2.68    | 2       | 8      | 1.6          |

**Fig. 3714CP & 3716CP - Full Coupling**



| Size<br>in | Part Number |            | A<br>in | B<br>in | Packing |        | Weight<br>lb |
|------------|-------------|------------|---------|---------|---------|--------|--------------|
|            | 304         | 316        |         |         | Inner   | Master |              |
| 1/2        | S3714CP004  | S3716CP004 | 1.20    | 1.38    | 50      | 200    | 0.1          |
| 3/4        | S3714CP006  | S3716CP006 | 1.46    | 1.50    | 35      | 140    | 0.2          |
| 1          | S3714CP010  | S3716CP010 | 1.77    | 1.62    | 15      | 60     | 0.4          |
| 1-1/4      | S3714CP012  | S3716CP012 | 2.15    | 2.00    | 10      | 40     | 0.5          |
| 1-1/2      | S3714CP014  | S3716CP014 | 2.43    | 2.12    | 10      | 40     | 0.6          |
| 2          | S3714CP020  | S3716CP020 | 2.96    | 2.50    | 2       | 8      | 1.3          |
| 2-1/2      | S3714CP024  | S3716CP024 | 3.31    | 2.87    | -       | 1      | 2.3          |
| 3          | S3714CP030  | S3716CP030 | 4.00    | 3.18    | -       | 1      | 3.3          |