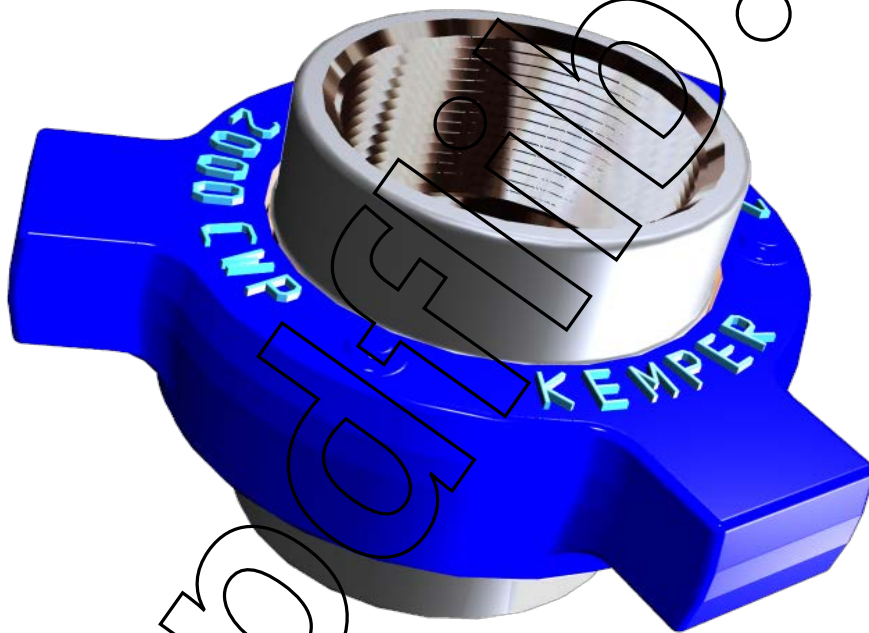


ORFIELD UNIONS



PRICE LIST

Prepared May 23rd, 2019 at 7:00pm CDT.
Prices valid until 6/22/2019
Currency: USD



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| Figure 602 | 6000 psi cwp | butt weld sch 160 | 14 | | | | |

GENERAL INFORMATION

PAYMENT TERMS:

Net 30 days

Seller reserves the right to place a service or interest charge on past due accounts at the highest rate permitted by law.

OTHER TERMS:

Product prices and materials of construction are subject to change without notice.

FREIGHT:

All prices apply FOB point of manufacture, Houston, Texas, or nearest available field stock.

Full freight allowed to domestic rail point or truck terminal nearest destination on shipments of 500 pounds or more.

Full freight allowed for 500 pounds or more within western Canada if shipped from our Red Deer Alberta warehouse.

MINIMUM ORDER:

Minimum invoice is twenty-five dollars (\$25.00), excluding transportation and taxes.

NOTE:

All assembly and part weights are approximate.

Price list is not inclusive of all oilfield unions and parts offered. Please consult sales office for complete information.

figure 100 - 1000 psi cwp* - 1500 psi test
threaded ends black nut / yellow subs

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|--------------|---------------|---------------|-----------------|---------------|
| 2" | UNION | 010200 | 6 | 15 | 30.94 |
| | NUT | 010293 | 3 | | 26.42 |
| | MALE SUB | 010201 | 1.4 | | 12.90 |
| | FEMALE SUB | 010202 | 1.9 | | 16.12 |
| 2 1/2" | UNION | 012500 | 11.1 | 8 | 93.24 |
| | NUT | 012593 | 5.5 | | 35.88 |
| | MALE SUB | 012501 | 2.5 | | 31.15 |
| | FEMALE SUB | 012502 | 3.1 | | 37.86 |
| 3" | UNION | 010300 | 12.85 | 6 | 82.52 |
| | NUT | 010393 | 6.1 | | 49.19 |
| | MALE SUB | 010301 | 4 | | 40.46 |
| | FEMALE SUB | 010302 | 4.5 | | 45.08 |
| 4" | UNION | 010400 | 22.5 | 3 | 116.48 |
| | NUT | 010493 | 10.4 | | 80.91 |
| | MALE SUB | 010401 | 7.3 | | 60.37 |
| | FEMALE SUB | 010402 | 6.8 | | 70.30 |
| 5" | UNION | 010500 | 32.7 | 2 | 365.04 |
| | NUT | 010593 | 12.6 | | 172.43 |
| | MALE SUB | 010501 | 9.7 | | 203.58 |
| | FEMALE SUB | 010502 | 10.4 | | 236.96 |
| 6" | UNION | 010600 | 47.1 | 1 | 325.68 |
| | NUT | 010693 | 17.8 | | 135.30 |
| | MALE SUB | 010601 | 13.2 | | 160.16 |
| | FEMALE SUB | 010602 | 16.2 | | 187.10 |
| 8" | UNION | 010800 | 67.4 | 1 | 608.61 |
| | NUT | 010893 | 24.4 | | 234.31 |
| | MALE SUB | 010801 | 19.1 | | 251.16 |
| | FEMALE SUB | 010802 | 24.1 | | 303.94 |

figure 101 - 8 RND EUE - 1000 psi cwp* - 1500 psi test
union with O'Ring beige nut / yellow subs

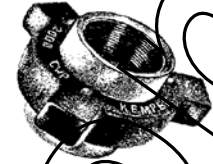
| | | | | | |
|-----------|------------------------|---------------|------|----------|---------------|
| 5" | UNION | 100550 | 37.9 | 2 | 504.56 |
| | NUT | 010593 | 12.6 | | 172.43 |
| | MALE SUB | 100551 | 11.9 | | 293.23 |
| | FEMALE SUB WITH O'RING | 100555 | 13.5 | | 342.78 |
| | O'RING | 100594 | 0.2 | | 17.21 |

*cwp is cold working pressure

figure 200 - 2000 psi cwp* - 3000 psi test
threaded ends blue nut / gray subs

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|--------------|---------------|---------------|-----------------|-----------------|
| 1" | UNION | 020100 | 2 | 40 | 22.62 |
| | NUT | 020193 | 1.1 | | 15.13 |
| | MALE SUB | 020101 | 0.4 | | 8.42 |
| | FEMALE SUB | 020102 | 0.5 | | 12.53 |
| 1 1/4" | UNION | 021200 | 2.5 | 20 | 80.81 |
| | NUT | 021293 | 1.3 | | 44.04 |
| | MALE SUB | 021201 | 0.5 | | 30.94 |
| | FEMALE SUB | 021202 | 0.6 | | 40.77 |
| 1 1/2" | UNION | 021500 | 3.2 | 20 | 103.84 |
| | NUT | 021593 | 1.7 | | 45.34 |
| | MALE SUB | 021501 | 0.7 | | 40.04 |
| | FEMALE SUB | 021502 | 0.865 | | 51.27 |
| 2" | UNION | 020200 | 5.6 | 15 | 31.36 |
| | NUT | 020293 | 3.1 | | 30.06 |
| | MALE SUB | 020201 | 1.3 | | 16.64 |
| | FEMALE SUB | 020202 | 1.6 | | 21.42 |
| 2 1/2" | UNION | 022500 | 10.5 | 6 | 143.83 |
| | NUT | 022593 | 5.8 | | 74.20 |
| | MALE SUB | 022501 | 2 | | 62.40 |
| | FEMALE SUB | 022502 | 2.6 | | 90.74 |
| 3" | UNION | 020300 | 14.2 | 6 | 144.82 |
| | NUT | 020393 | 6.7 | | 77.22 |
| | MALE SUB | 020301 | 3.5 | | 123.55 |
| | FEMALE SUB | 020302 | 4.1 | | 64.01 |
| 4" | UNION | 020400 | 19 | 4 | 172.07 |
| | NUT | 020493 | 7.4 | | 79.20 |
| | MALE SUB | 020401 | 5.3 | | 83.93 |
| | FEMALE SUB | 020402 | 6.3 | | 109.88 |
| 5" | UNION | 020500 | 40.2 | 4 | 649.74 |
| | NUT | 020593 | 17.6 | | 292.24 |
| | MALE SUB | 020501 | 9.8 | | 316.16 |
| | FEMALE SUB | 020502 | 12.7 | | 344.71 |
| 6" | UNION | 020600 | 47.2 | 1 | 635.75 |
| | NUT | 020693 | 18.3 | | 346.11 |
| | MALE SUB | 020601 | 12.7 | | 326.09 |
| | FEMALE SUB | 020602 | 17.2 | | 393.07 |
| 8" | UNION | 020800 | 67.7 | 1 | 826.23 |
| | NUT | 020893 | 22.6 | | 443.92 |
| | MALE SUB | 020801 | 19.4 | | 423.64 |
| | FEMALE SUB | 020802 | 25.6 | | 509.24 |
| 10" | UNION | 021000 | 94.2 | 1 | 1,269.06 |
| | NUT | 021093 | 33.3 | | 688.22 |
| | MALE SUB | 021001 | 27.7 | | 650.47 |
| | FEMALE SUB | 021002 | 33.134 | | 935.48 |

*cwp is cold working pressure



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**figure 200 - 2000 psi cwp* - 3000 psi test
butt weld schedule 40 blue nut / gray subs**

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|--------------|---------------|---------------|-----------------|-----------------|
| 2" | UNION | 020210 | 5.9 | 15 | 158.55 |
| | NUT | 020293 | 3.1 | | 30.06 |
| | MALE SUB | 020211 | 1.3 | | 92.82 |
| | FEMALE SUB | 020212 | 1.5 | | 119.29 |
| 2 1/2" | UNION | 022510 | 11.3 | 6 | 473.98 |
| | NUT | 022593 | 5.8 | | 74.20 |
| | MALE SUB | 022511 | 2.3 | | 156.42 |
| | FEMALE SUB | 022512 | 2.7 | | 179.24 |
| 3" | UNION | 020310 | 14.5 | 6 | 305.34 |
| | NUT | 020393 | 6.7 | | 77.22 |
| | MALE SUB | 020311 | 3.7 | | 143.31 |
| | FEMALE SUB | 020312 | 4.1 | | 179.45 |
| 4" | UNION | 020410 | 19.5 | 4 | 429.62 |
| | NUT | 020493 | 7.4 | | 79.20 |
| | MALE SUB | 020411 | 4.7 | | 190.89 |
| | FEMALE SUB | 020412 | 6.4 | | 249.96 |
| 5" | UNION | 020510 | 40.8 | 4 | 856.18 |
| | NUT | 020593 | 17.6 | | 292.24 |
| | MALE SUB | 020511 | 10.3 | | 472.68 |
| | FEMALE SUB | 020512 | 12.9 | | 501.33 |
| 6" | UNION | 020610 | 49.1 | 1 | 899.03 |
| | NUT | 020693 | 18.3 | | 346.11 |
| | MALE SUB | 020611 | 13.9 | | 519.79 |
| | FEMALE SUB | 020612 | 16.1 | | 680.99 |
| 8" | UNION | 020810 | 70.1 | 1 | 1,153.00 |
| | NUT | 020893 | 22.6 | | 443.92 |
| | MALE SUB | 020811 | 21.3 | | 665.08 |
| | FEMALE SUB | 020812 | 26.1 | | 872.51 |
| 10" | UNION | 021010 | 102.6 | 1 | 1,787.55 |
| | NUT | 021093 | 33.3 | | 688.22 |
| | MALE SUB | 021011 | 33.6 | | 1,031.73 |
| | FEMALE SUB | 021012 | 35.7 | | 1,351.90 |

*cwp is cold working pressure

2 1/2" available - Price on Request



**figure 200 - 2000 psi cwp* - 3000 psi test
butt weld schedule 80 blue nut / gray subs**

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|--------------|---------------|---------------|-----------------|-----------------|
| 2" | UNION | 020220 | 6.2 | 15 | 217.52 |
| | NUT | 020293 | 3.1 | | 30.06 |
| | MALE SUB | 020221 | 1.5 | | 116.38 |
| | FEMALE SUB | 020222 | 1.6 | | 142.90 |
| 2 1/2" | UNION | 022520 | 11.4 | 6 | 795.60 |
| | NUT | 022593 | 5.8 | | 74.20 |
| | MALE SUB | 022521 | 2.6 | | 297.44 |
| | FEMALE SUB | 022522 | 2.9 | | 306.80 |
| 3" | UNION | 020320 | 15.4 | 6 | 364.26 |
| | NUT | 020393 | 6.7 | | 77.22 |
| | MALE SUB | 020321 | 4.2 | | 166.87 |
| | FEMALE SUB | 020322 | 4.5 | | 203.01 |
| 4" | UNION | 020420 | 21 | 4 | 488.54 |
| | NUT | 020493 | 7.4 | | 79.20 |
| | MALE SUB | 020421 | 6.6 | | 214.50 |
| | FEMALE SUB | 020422 | 7 | | 273.52 |
| 5" | UNION | 020520 | 44 | 4 | 915.15 |
| | NUT | 020593 | 17.6 | | 292.24 |
| | MALE SUB | 020521 | 12.1 | | 496.24 |
| | FEMALE SUB | 020522 | 14.3 | | 524.89 |
| 6" | UNION | 020620 | 52.9 | 1 | 958.00 |
| | NUT | 020693 | 18.3 | | 346.11 |
| | MALE SUB | 020621 | 16.6 | | 543.40 |
| | FEMALE SUB | 020622 | 18 | | 705.74 |
| 8" | UNION | 020820 | 77.7 | 1 | 1,211.91 |
| | NUT | 020893 | 22.6 | | 443.92 |
| | MALE SUB | 020821 | 26.6 | | 688.64 |
| | FEMALE SUB | 020822 | 29.5 | | 896.12 |
| 10" | UNION | 021020 | 118.3 | 1 | 1,846.52 |
| | NUT | 021093 | 33.3 | | 688.22 |
| | MALE SUB | 021021 | 43 | | 1,055.34 |
| | FEMALE SUB | 021022 | 42 | | 1,375.45 |

2 1/2" available - Price on Request

figure 206 - 2000 psi cwp* - 3000 psi test
union with O'Ring threaded ends blue nut / gray subs

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|--|---------------|---------------|-----------------|-----------------|
| 1" | UNION | 260100 | 1.9 | 60 | 56.47 |
| | NUT | 260193 | 1.1 | | 26.94 |
| | MALE SUB WITH O-RING | 260104 | 0.55 | | 26.94 |
| | O-RING | 260194 | 0.1 | | 5.46 |
| | See Figure 200 for Female Sub Specifications and Price | | | | |
| 1 1/4" | UNION | 261200 | 2.5 | 20 | 115.49 |
| | NUT | 261293 | 1.3 | | 44.46 |
| | MALE SUB WITH O-RING | 261204 | 0.5 | | 59.07 |
| | O-RING | 261294 | 0.1 | | 4.63 |
| 1 1/2" | UNION | 261500 | 3.2 | 20 | 105.04 |
| | NUT | 261593 | 1.7 | | 45.34 |
| | MALE SUB WITH O-RING | 261504 | 0.75 | | 52.47 |
| | O-RING | 261594 | 0.1 | | 4.63 |
| 2" | UNION | 260200 | 5.9 | 15 | 80.13 |
| | NUT | 260293 | 3.107 | | 30.84 |
| | MALE SUB WITH O-RING | 260204 | 1.3 | | 40.46 |
| | O-RING | 260294 | 0.15 | | 5.93 |
| 2 1/2" | UNION | 262500 | 10.4 | 6 | 244.87 |
| | NUT | 262593 | 5.8 | | 94.28 |
| | MALE SUB WITH O-RING | 262504 | 2.25 | | 107.07 |
| | O-RING | 262594 | 0.15 | | 6.14 |
| 3" | UNION | 260300 | 14.2 | 6 | 159.95 |
| | NUT | 260393 | 6.7 | | 77.22 |
| | MALE SUB WITH O-RING | 260304 | 3.4 | | 62.30 |
| | O-RING | 260394 | 0.2 | | 5.93 |
| 4" | UNION | 260400 | 18.8 | 4 | 215.33 |
| | NUT | 260493 | 7.4 | | 200.36 |
| | MALE SUB WITH O-RING | 260404 | 5.2 | | 91.62 |
| | O-RING | 260494 | 0.2 | | 5.93 |
| 6" | UNION | 260600 | 46.9 | 1 | 842.45 |
| | NUT | 260693 | 18.3 | | 324.32 |
| | MALE SUB WITH O-RING | 260604 | 13.25 | | 337.58 |
| | O-RING | 260694 | 0.25 | | 17.21 |
| 8" | UNION | 260800 | 67.2 | 1 | 1,502.80 |
| | NUT | 260893 | 22.6 | | 422.03 |
| | MALE SUB WITH O-RING | 260804 | 19 | | - |
| | O-RING | 260894 | 0.25 | | 23.71 |
| 10" | UNION | 261000 | 93.6 | 1 | 1,564.52 |
| | NUT | 261093 | 33.3 | | 826.80 |
| | MALE SUB WITH O-RING | 261004 | 27.5 | | 675.58 |
| | O-RING | 261094 | 0.3 | | 33.23 |

*cwp is cold working pressure

2 1/2" & 5" available - Price on Request

figure 206 - 2000 psi cwp* - 3000 psi test
union with O'Ring blue nut / gray subs
butt weld schedule 40

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|----------------------|---------------|---------------|-----------------|-----------------|
| 2" | UNION | 260210 | 5.8 | 15 | 186.26 |
| | NUT | 260293 | 3.107 | | 30.84 |
| | MALE SUB WITH O-RING | 260214 | 1.3 | | 93.34 |
| | FEMALE SUB | 020212 | 0.5 | | 119.29 |
| | O-RING | 260294 | 0.15 | | 5.93 |
| 2 1/2" | UNION | 262510 | 10.8 | 6 | 256.78 |
| | NUT | 262593 | 5.8 | | 94.28 |
| | MALE SUB WITH O-RING | 262514 | 2.3 | | 146.43 |
| | FEMALE SUB | 022512 | 2.7 | | 179.24 |
| | O-RING | 262594 | 0.15 | | 6.14 |
| 3" | UNION | 260310 | 14.4 | 6 | 328.80 |
| | NUT | 260393 | 6.7 | | 77.22 |
| | MALE SUB WITH O-RING | 260314 | 3.6 | | 112.79 |
| | FEMALE SUB | 020312 | 4.1 | | 179.45 |
| | O-RING | 260394 | 0.2 | | 5.93 |
| 4" | UNION | 260410 | 19.4 | 4 | 461.50 |
| | NUT | 260493 | 7.4 | | 200.36 |
| | MALE SUB WITH O-RING | 260414 | 5.6 | | 155.32 |
| | FEMALE SUB | 020412 | 6.4 | | 249.96 |
| | O-RING | 260494 | 0.2 | | 5.93 |
| 6" | UNION | 260610 | 47.9 | 1 | 1,192.36 |
| | NUT | 260693 | 18.3 | | 324.32 |
| | MALE SUB WITH O-RING | 260614 | 13.6 | | 514.75 |
| | FEMALE SUB | 020612 | 16.1 | | 680.99 |
| | O-RING | 260694 | 0.25 | | 17.21 |
| 8" | UNION | 260810 | 69.6 | 1 | 1,873.25 |
| | NUT | 260893 | 22.6 | | 422.03 |
| | MALE SUB WITH O-RING | 260814 | 20.9 | | 900.85 |
| | FEMALE SUB | 020812 | 26.1 | | 872.51 |
| | O-RING | 260894 | 0.25 | | 23.71 |
| 10" | UNION | 261010 | 102.1 | 1 | 2,305.32 |
| | NUT | 261093 | 33.3 | | 826.80 |
| | MALE SUB WITH O-RING | 261014 | 33.1 | | 1,095.12 |
| | FEMALE SUB | 021012 | 35.7 | | 1,351.90 |
| | O-RING | 261094 | 0.3 | | 33.23 |

*cwp is cold working pressure

2 1/2" & 5" available - Price on Request

**figure 206 - 2000 psi cwp* - 3000 psi test
 union with O'Ring blue nut / gray subs
 butt weld schedule 80**

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| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|----------------------|---------------|---------------|-----------------|-----------------|
| 2" | UNION | 260220 | 6.2 | 15 | 245.18 |
| | NUT | 260293 | 3.107 | | 30.84 |
| | MALE SUB WITH O-RING | 260224 | 1.5 | | 116.90 |
| | FEMALE SUB | 020222 | 1.6 | | 142.90 |
| | O-RING | 260294 | 0.15 | | 5.93 |
| 2 1/2" | UNION | 262520 | 11.4 | 6 | 315.74 |
| | NUT | 262593 | 5.8 | | 94.28 |
| | MALE SUB WITH O-RING | 262524 | 2.6 | | - |
| | FEMALE SUB | 022522 | 2.9 | | 795.60 |
| | O-RING | 262594 | 0.15 | | 6.14 |
| 3" | UNION | 260320 | 15.3 | 6 | 387.76 |
| | NUT | 260393 | 6.7 | | 77.22 |
| | MALE SUB WITH O-RING | 260324 | 4.1 | | 157.61 |
| | FEMALE SUB | 020322 | 4.5 | | 203.01 |
| | O-RING | 260394 | 0.2 | | 5.93 |
| 4" | UNION | 260420 | 20.9 | 4 | 520.47 |
| | NUT | 260493 | 7.4 | | 200.36 |
| | MALE SUB WITH O-RING | 260424 | 6.5 | | 178.88 |
| | FEMALE SUB | 020422 | 7 | | 273.52 |
| | O-RING | 260494 | 0.2 | | 5.93 |
| 6" | UNION | 260620 | 52.6 | 1 | 1,251.33 |
| | NUT | 260693 | 18.3 | | 324.32 |
| | MALE SUB WITH O-RING | 260624 | 16.3 | | 538.30 |
| | FEMALE SUB | 020622 | 18 | | 705.74 |
| | O-RING | 260694 | 0.25 | | 17.21 |
| 8" | UNION | 260820 | 77.3 | 1 | 1,932.16 |
| | NUT | 260893 | 22.6 | | 422.03 |
| | MALE SUB WITH O-RING | 260824 | 25.2 | | 878.23 |
| | FEMALE SUB | 020822 | 29.5 | | 896.12 |
| | O-RING | 260894 | 0.25 | | 23.71 |
| 10" | UNION | 261020 | 117.8 | 1 | 2,364.28 |
| | NUT | 261093 | 33.3 | | 826.80 |
| | MALE SUB WITH O-RING | 261024 | 42.4 | | 780.21 |
| | FEMALE SUB | 021022 | 42 | | 1,375.45 |
| | O-RING | 261094 | 0.3 | | 33.23 |

2 1/2 " available - Price on Request



**figure 201 - 8 RND EUE - 3000 psi cwp* - 4500 psi test
union with O-Ring gold nut / gray subs**

| | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|------------------------|---------------|-----------------|---------------|
| 2" | UNION | 210250 | 5 | 270.40 |
| | NUT | 022593 | | 74.20 |
| | MALE SUB | 210251 | | 89.23 |
| | FEMALE SUB WITH O-RING | 210255 | | 104.10 |
| | O'RING | 2102594 | | 1.87 |
| 2 1/2" | UNION | 212550 | 5 | 288.44 |
| | NUT | 020393 | | 77.22 |
| | MALE SUB | 212551 | | 146.54 |
| | FEMALE SUB WITH O-RING | 212555 | | 195.57 |
| | O'RING | 130394 | | 6.60 |

*POR = Price On Request

**figure 211 - 2000 psi cwp* - 3000 psi test
insulated union threaded end gray nut / blue sub**

| | | | | |
|-----------|--------------------------|---------------|-----------|---------------|
| 2" | UNION | 110200 | 15 | 145.81 |
| | NUT | 110293 | | 56.11 |
| | MALE SUB | 110201 | | 48.10 |
| | FEMALE SUB W / SEAL RING | 110205 | | 56.11 |
| | REPAIR KITS | 110299 | | 40.46 |
| 3" | UNION | 110300 | 6 | 281.11 |
| | NUT | 110393 | | 109.04 |
| | MALE SUB | 110301 | | 92.77 |
| | FEMALE SUB W / SEAL RING | 110305 | | 116.90 |
| | REPAIR KITS | 110399 | | 48.88 |

*cwp is cold working pressure

figure 207 - 2000 psi cwp* - 3000 psi test

blanking union threaded end blue cap / gray sub

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|-----------|-------------------------|---------------|---------------|-----------------|---------------|
| 3" | UNION | 270300 | 11.8 | 10 | 151.11 |
| | BLANKING CAP W / O-RING | 270397 | 7.8 | | 116.17 |
| | FEMALE SUB | 020302 | 4.1 | | 64.01 |
| | O-RING | 270394 | 0.2 | | 5.93 |
| 4" | UNION | 270400 | 17.8 | 6 | 223.81 |
| | BLANKING CAP W / O-RING | 270497 | 11.7 | | 137.38 |
| | FEMALE SUB | 020402 | 6.3 | | 109.88 |
| | O-RING | 120594 | - | | - |
| 6" | UNION | 270600 | 42.4 | 1 | 635.86 |
| | BLANKING CAP W / O-RING | 270697 | 26.7 | | 286.42 |
| | FEMALE SUB | 020602 | 17.2 | | 393.07 |
| | O-RING | 270694 | 0.25 | | 16.43 |

butt weld schedule 40

| | | | | | |
|-----------|-------------------------|---------------|------|-----------|---------------|
| 3" | UNION | 270310 | 12 | 10 | 210.13 |
| | BLANKING CAP W / O-RING | 270397 | 7.8 | | 116.17 |
| | FEMALE SUB | 020312 | 4.1 | | 179.45 |
| | O-RING | 270394 | 0.2 | | 5.93 |
| 4" | UNION | 270410 | 18.1 | 6 | 279.81 |
| | BLANKING CAP W / O-RING | 270497 | 11.7 | | 137.38 |
| | FEMALE SUB | 020412 | 6.4 | | 249.96 |
| | O-RING | 120594 | 0.2 | | 9.52 |
| 6" | UNION | 270610 | 42.8 | 1 | 706.37 |
| | BLANKING CAP W / O-RING | 270697 | 26.7 | | 286.42 |
| | FEMALE SUB | 020612 | 16.1 | | 680.99 |
| | O-RING | 270694 | 0.25 | | 16.43 |

butt weld schedule 80

| | | | | | |
|-----------|-------------------------|---------------|------|-----------|---------------|
| 3" | UNION | 270320 | 12.3 | 10 | 300.35 |
| | BLANKING CAP W / O-RING | 270397 | 7.8 | | 116.17 |
| | FEMALE SUB | 020322 | 4.5 | | - |
| | O-RING | 270394 | 0.2 | | 5.93 |
| 4" | UNION | 270420 | 18.7 | 6 | 306.85 |
| | BLANKING CAP W / O-RING | 270497 | 11.7 | | 137.38 |
| | FEMALE SUB | 020422 | 7 | | 273.52 |
| | O-RING | 120594 | - | | - |
| 6" | UNION | 270620 | 44.8 | 1 | 733.41 |
| | BLANKING CAP W / O-RING | 270697 | 26.7 | | 286.42 |
| | FEMALE SUB | 020622 | 18 | | 705.74 |
| | O-RING | 270694 | 0.25 | | 16.43 |

figure 300 - 2000 psi cwp* - 3000 psi test

union with O'Ring threaded ends gray nut / yellow subs

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|-----------|------------------------|---------------|---------------|-----------------|--------------|
| 1" | UNION | 030100 | 1.9 | 15 | 46.75 |
| | NUT | 030193 | 1.1 | | 20.54 |
| | MALE SUB | 030101 | 0.3 | | 18.62 |
| | FEMALE SUB WITH O-RING | 030105 | 0.4 | | 24.13 |
| | O-RING | 030194 | 0.1 | | 5.93 |
| 2" | UNION | 030200 | 6.1 | 15 | 51.06 |
| | NUT | 030293 | 3 | | 21.84 |
| | MALE SUB | 030201 | 1.5 | | 20.02 |
| | FEMALE SUB WITH O-RING | 030205 | 1.7 | | 25.22 |
| | O-RING | 030294 | 0.22 | | 6.60 |

*cwp is cold working pressure

figure 400 - 4000 psi cwp* - 6000 psi test

threaded ends black nut / red subs

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|-------------|----------------------|---------------|---------------|-----------------|-----------------|
| 2" | UNION | 040200 | 10.8 | 10 | 116.69 |
| | NUT | 040293 | 4.8 | | 68.59 |
| | MALE SUB | 040201 | 2.7 | | 44.77 |
| | FEMALE SUB | 040202 | 3.2 | | 62.71 |
| 3" | UNION | 040300 | 18.8 | 4 | 299.52 |
| | NUT | 040393 | 6.6 | | 115.28 |
| | MALE SUB | 040301 | 5.2 | | 114.09 |
| | FEMALE SUB | 040302 | 6.9 | | 141.91 |
| 4" | UNION | 040400 | 30 | 3 | 301.13 |
| | NUT | 040493 | 10.1 | | 141.80 |
| | MALE SUB | 040401 | 8.9 | | 183.35 |
| | FEMALE SUB | 040402 | 11 | | 215.23 |
| *6" | UNION | 040600 | 74.8 | 1 | 2,632.81 |
| | NUT | 040693 | 23.3 | | 1,332.55 |
| | MALE SUB | 040601 | 23.7 | | 895.13 |
| | FEMALE SUB | 040602 | 27.8 | | 1,013.64 |
| *12" | UNION | 041200 | 167.5 | 1 | 3,017.66 |
| | NUT | 041293 | 56.7 | | 2,696.93 |
| | MALE SUB WITH O-RING | 041204 | 52.2 | | 1,347.37 |
| | FEMALE SUB | 041202 | 58.7 | | 1,598.17 |
| | O-RING | 041294 | 0.4 | | 46.59 |

*12" FIG 400 - 2,500 psi cwp - 3,750 psi test

5", 8" and 10" Unions are available - P.O.R.

butt weld schedule 80

| | | | | | |
|-------------|----------------------|---------------|-------|----------|-----------------|
| *12" | UNION | 041220 | 208.2 | 1 | 7,004.97 |
| | NUT | 041293 | 56.7 | | 2,696.93 |
| | MALE SUB WITH O-RING | 041224 | 76.3 | | 4,066.19 |
| | FEMALE SUB | 041222 | 74.6 | | 4,823.94 |
| | O-RING | 041294 | 0.4 | | 46.59 |

*12" FIG 400 BW 80 - 2,500 psi cwp - 3,750 psi test



figure 402 - 4000 psi cwp* - 6000 psi test

union with seal ring threaded ends black nut / black subs

| | | | | | |
|-----------|-------------------------|---------------|------|-----------|---------------|
| 2" | UNION | 420200 | 10.4 | 10 | 155.74 |
| | NUT | 420293 | 4.8 | | 66.82 |
| | MALE SUB | 420201 | 2.8 | | 62.61 |
| | FEMALE SUB W/ SEAL RING | 420205 | 3 | | 79.20 |
| | SEAL RING | 620295 | 0.1 | | 6.97 |

*cwp is cold working pressure

P.O.R. = Price on Request

figure 600 - 6000 psi cwp* - 9000 psi test

union w/ bronze seat threaded ends black nut / silver subs

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|---------------------------|--------------------|----------------------|------------------------|---------------|
| 1" | UNION | 060100 | 3.6 | 20 | 170.35 |
| | NUT | 060193 | 1.75 | | 80.13 |
| | MALE SUB | 060101 | 0.7 | | 56.21 |
| | FEMALE SUB W/ BRONZE SEAT | 060106 | 1.2 | | 101.35 |
| | BRONZE SEAT INSERT | 060196 | 0.05 | | 37.08 |
| 1 1/4" | UNION | 061200 | - | 10 | - |
| | NUT | 061593 | 4.642 | | 100.83 |
| | MALE SUB | 061201 | - | | - |
| | FEMALE SUB W/ BRONZE SEAT | 061206 | - | | - |
| | BRONZE SEAT INSERT | 061596 | 0.1 | | 52.31 |
| 1 1/2" | UNION | 061500 | 9.2 | 10 | 244.66 |
| | NUT | 061593 | 4.642 | | 100.83 |
| | MALE SUB | 061501 | 2 | | 80.76 |
| | FEMALE SUB W/ BRONZE SEAT | 061506 | 2.7 | | 135.82 |
| | BRONZE SEAT INSERT | 061596 | - | | - |
| 2" | UNION | 060200 | 16.6 | 7 | 269.31 |
| | NUT | 060293 | 8.2 | | 112.16 |
| | MALE SUB | 060201 | 3.4 | | 88.87 |
| | FEMALE SUB W/ BRONZE SEAT | 060206 | 5.1 | | 150.54 |
| | BRONZE SEAT INSERT | 060296 | 0.6 | | 57.20 |
| 4" | UNION | 060400 | 38.5 | 2 | 786.14 |
| | NUT | 060493 | 14 | | 231.50 |
| | MALE SUB | 060401 | 11.5 | | 234.05 |
| | FEMALE SUB W/ BRONZE SEAT | 060406 | 13 | | 299.05 |
| | BRONZE SEAT INSERT | 060496 | 0.2 | | 85.50 |

*cwp is cold working pressure

figure 602 - 6000 psi cwp* - 9000 psi test
union w/ seal ring threaded ends black nut / orange subs

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|-------------------------|---------------|---------------|-----------------|---------------|
| 1" | UNION | 620100 | 3.6 | 20 | 88.04 |
| | NUT | 620193 | 1.8 | | 45.97 |
| | MALE SUB | 620101 | 0.7 | | 29.07 |
| | FEMALE SUB W/ SEAL RING | 620105 | 1.1 | | 40.04 |
| | SEAL RING | 620195 | 0.1 | | 5.56 |
| 1 1/4" | UNION | 621200 | 9.9 | 10 | 185.95 |
| | NUT | 621593 | 4.642 | | 100.83 |
| | MALE SUB | 621201 | 2.4 | | 68.22 |
| | FEMALE SUB W/ SEAL RING | 621205 | 2.9 | | 99.84 |
| | SEAL RING | 621595 | 0.1 | | 7.85 |
| 1 1/2" | UNION | 621500 | 9.1 | 10 | 185.95 |
| | NUT | 621593 | 4.642 | | 100.83 |
| | MALE SUB | 621501 | 2 | | 68.22 |
| | FEMALE SUB W/ SEAL RING | 621505 | 2.5 | | 99.84 |
| | SEAL RING | 621595 | 0.1 | | 7.85 |
| 2" | UNION | 620200 | 14.2 | 7 | 172.64 |
| | NUT | 620293 | 7.319 | | 79.20 |
| | MALE SUB | 620201 | 2.9 | | 63.91 |
| | FEMALE SUB W/ SEAL RING | 620205 | 3.9 | | 92.56 |
| | SEAL RING | 620295 | 0.1 | | 6.97 |
| 3" | UNION | 620300 | 22.7 | 4 | 299.36 |
| | NUT | 620393 | 10.6 | | 122.56 |
| | MALE SUB | 620301 | 5.2 | | 113.88 |
| | FEMALE SUB W/ SEAL RING | 620305 | 6.9 | | 146.12 |
| | SEAL RING | 620395 | 0.11 | | 10.04 |
| 4" | UNION | 620400 | 35.5 | 2 | 475.59 |
| | NUT | 620493 | 15.5 | | 183.09 |
| | MALE SUB | 620401 | 8.9 | | 179.87 |
| | FEMALE SUB W/ SEAL RING | 620405 | 11.1 | | 258.96 |
| | SEAL RING | 620495 | 0.15 | | 10.92 |

*cwp is cold working pressure



**figure 602 - 6000 psi cwp* - 9000 psi test
union w/ seal ring
butt weld schedule 80**

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|-------------------------|---------------|---------------|-----------------|---------------|
| 1" | UNION | 620120 | 3.6 | 20 | 105.04 |
| | NUT | 620193 | 1.8 | | 45.97 |
| | MALE SUB | 620121 | 0.8 | | 40.77 |
| | FEMALE SUB W/ SEAL RING | 620125 | 1.25 | | 61.78 |
| | SEAL RING | 620195 | 0.1 | | 5.56 |
| 1 1/4" | UNION | 621220 | 9.3 | 10 | 223.91 |
| | NUT | 621593 | 4.642 | | 100.83 |
| | MALE SUB | 621221 | 2.18 | | 106.44 |
| | FEMALE SUB W/ SEAL RING | 621225 | 3 | | 155.01 |
| | SEAL RING | 621595 | 0.1 | | 7.85 |
| 1 1/2" | UNION | 621520 | 9.1 | 10 | 223.91 |
| | NUT | 621593 | 4.642 | | 100.83 |
| | MALE SUB | 621521 | 2.1 | | 106.44 |
| | FEMALE SUB W/ SEAL RING | 621525 | 2.75 | | 155.01 |
| | SEAL RING | 621595 | 0.1 | | 7.85 |
| 2" | UNION | 620220 | 13.9 | 7 | 239.88 |
| | NUT | 620293 | 7.319 | | 79.20 |
| | MALE SUB | 620221 | 2.7 | | 107.54 |
| | FEMALE SUB W/ SEAL RING | 620225 | 3.5 | | 156.83 |
| | SEAL RING | 620295 | 0.1 | | 6.97 |
| 3" | UNION | 620320 | 22.5 | 4 | 342.11 |
| | NUT | 620393 | 10.6 | | 122.56 |
| | MALE SUB | 620321 | 5.9 | | 141.91 |
| | FEMALE SUB W/ SEAL RING | 620325 | 6.25 | | 186.26 |
| | SEAL RING | 620395 | 0.11 | | 10.04 |
| 4" | UNION | 620420 | 31.5 | 2 | 537.21 |
| | NUT | 620493 | 15.5 | | 183.09 |
| | MALE SUB | 620421 | 7.6 | | 212.99 |
| | FEMALE SUB W/ SEAL RING | 620425 | 8.3 | | 296.56 |
| | SEAL RING | 620495 | 0.15 | | 10.92 |

*cwp is cold working pressure

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**figure 602 - 6000 psi cwp* - 9000 psi test
union w/ seal ring
butt weld schedule 160 and butt weld xxh**

| | PART NUMBER AND WEIGHT (LBS.) | | CARTON QTY. | PRICE |
|---------------|-------------------------------|----------------------|--------------------|------------------|
| | BW 160 | BW XXH | | |
| 1" | UNION | 620130 3.7 | 620140 3.9 | 20 227.14 |
| | NUT | 620193 1.8 | 620193 1.8 | 45.97 |
| | MALE SUB | 620131 0.8 | 620141 0.9 | 90.74 |
| | FEMALE SUB W/ S.R. | 620135 1.2 | 620145 1.25 | 131.98 |
| | SEAL RING | 620195 0.1 | 620195 0.1 | 5.56 |
| 1 1/2" | UNION | 621530 9.5 | 621540 9.9 | 10 313.14 |
| | NUT | 621593 4.642 | 621593 4.642 | 100.83 |
| | MALE SUB | 621531 2.3 | 621541 2.5 | 139.83 |
| | FEMALE SUB W/ S.R. | 621535 2.8 | 621545 2.75 | 204.31 |
| | SEAL RING | 621595 0.1 | 621595 0.1 | 7.85 |
| 2" | UNION | 620230 14.108 | 620240 15.1 | 7 399.20 |
| | NUT | 620293 7.319 | 620293 7.319 | 79.20 |
| | MALE SUB | 620231 3.1 | 620241 3.4 | 178.57 |
| | FEMALE SUB W/ S.R. | 620235 3.7 | 620245 3.9 | 260.10 |
| | SEAL RING | 620295 0.1 | 620295 0.1 | 6.97 |
| 3" | UNION | 620330 23.8 | 620340 24.9 | 4 552.81 |
| | NUT | 620393 10.6 | 620393 10.6 | 122.56 |
| | MALE SUB | 620331 6.7 | 620341 7.4 | 229.94 |
| | FEMALE SUB W/ S.R. | 620335 6.5 | 620345 6.85 | 301.34 |
| | SEAL RING | 620395 0.11 | 620395 0.11 | 10.04 |
| 4" | UNION | 620430 33.8 | 620440 34.9 | 2 720.25 |
| | NUT | 620493 15.5 | 620493 15.5 | 183.09 |
| | MALE SUB | 620431 9 | 620441 9.7 | 285.12 |
| | FEMALE SUB W/ S.R. | 620435 9.3 | 620445 9.7 | 397.28 |
| | SEAL RING | 620495 0.15 | 620495 0.15 | 10.92 |

*cwp is cold working pressure

figure 1002 - 10,000 psi cwp* - 15,000 psi test
union w/ seal ring threaded ends red nut / blue subs

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|-------------------------|---------------|---------------|-----------------|-----------------|
| 1" | UNION | 120100 | 3.6 | 20 | 149.71 |
| | NUT | 120193 | 1.8 | | 74.83 |
| | MALE SUB | 120101 | 0.7 | | 49.40 |
| | FEMALE SUB W/ SEAL RING | 120105 | 1.1 | | 61.10 |
| | SEAL RING | 620195 | 0.1 | | 5.56 |
| 1 1/2" | UNION | 121500 | 9.104 | 10 | 251.16 |
| | NUT | 121593 | 4.6 | | 96.67 |
| | MALE SUB | 121501 | 2 | | 82.89 |
| | FEMALE SUB W/ SEAL RING | 121505 | 2.5 | | 176.85 |
| | SEAL RING | 621595 | 0.1 | | 7.85 |
| 2" | UNION | 120200 | 13.4 | 7 | 200.98 |
| | NUT | 120293 | 7.4 | | 143.10 |
| | MALE SUB | 120201 | 2.8 | | 66.30 |
| | FEMALE SUB W/ SEAL RING | 120205 | 3.1 | | 94.85 |
| | SEAL RING | 620295 | 0.1 | | 6.97 |
| 3" | UNION | 120300 | 22.7 | 4 | 340.81 |
| | NUT | 120393 | 10.7 | | 168.06 |
| | MALE SUB | 120301 | 5.2 | | 121.99 |
| | FEMALE SUB W/ SEAL RING | 120305 | 6.9 | | 179.76 |
| | SEAL RING | 620395 | 0.11 | | 10.04 |
| 4" | UNION | 120400 | 35.5 | 2 | 489.94 |
| | NUT | 120493 | 15.6 | | 250.54 |
| | MALE SUB | 120401 | 8.9 | | 200.41 |
| | FEMALE SUB W/ SEAL RING | 120405 | 11 | | 264.11 |
| | SEAL RING | 620495 | 0.15 | | 10.92 |
| * 5" | UNION | 120500 | 73.457 | 1 | 1,786.56 |
| | NUT | 120593 | 26.6 | | 660.30 |
| | MALE SUB W/ O-RING | 120504 | 23.3 | | 731.48 |
| | FEMALE SUB | 120502 | 23.6 | | 964.44 |
| | O'RING | 120594 | 0.2 | | 9.52 |

5" fig 1002 - 5,000 psi cwp - 7,500 psi test

cwp is cold working pressure

figure 1002 - 10,000 psi cwp* - 15,000 psi test

union w/ seal ring

butt weld schedule 160 and butt weld xxh

| | | PART NUMBER AND WEIGHT (LBS.) | | | | CARTON | PRICE |
|------------|--------------------|-------------------------------|--------|---------------|------|----------|-----------------|
| | | BW 160 | | BW XXH | | QTY. | |
| 2" | UNION | 120230 | 14.2 | 120240 | 14.6 | 7 | 371.64 |
| | NUT | 120293 | 7.4 | 120293 | 7.4 | | 143.10 |
| | MALE SUB | 120231 | 3.1 | 120241 | 3.4 | | 147.73 |
| | FEMALE SUB W/ S.R. | 120235 | 3.6 | 120245 | 3.8 | | 214.71 |
| | SEAL RING | 620295 | 0.1 | 620295 | 0.1 | | 6.97 |
| 3" | UNION | 120330 | 23.8 | 120340 | 24.9 | 4 | 436.54 |
| | NUT | 120393 | 10.7 | 120393 | 10.7 | | 168.06 |
| | MALE SUB | 120331 | 6.7 | 120341 | 7.4 | | 168.74 |
| | FEMALE SUB W/ S.R. | 120335 | 6.4 | 120345 | 6.8 | | 254.18 |
| | SEAL RING | 620395 | 0.11 | 620395 | 0.11 | | 10.04 |
| 4" | UNION | 120430 | 34.025 | 120440 | 34.9 | 2 | 650.68 |
| | NUT | 120493 | 15.6 | 120493 | 15.6 | | 250.54 |
| | MALE SUB | 120431 | 9 | 120441 | 9.7 | | 295.15 |
| | FEMALE SUB W/ S.R. | 120435 | 9.2 | 120445 | 9.6 | | 381.68 |
| | SEAL RING | 620495 | 0.15 | 620495 | 0.15 | | 10.92 |
| *5" | UNION | 120530 | 55.4 | 120540 | 57.5 | 1 | 1,456.05 |
| | NUT | 120593 | 26.6 | 120593 | 26.6 | | 660.30 |
| | MALE SUB W/ O-RING | 120534 | 14 | 120544 | 15.4 | | 487.81 |
| | FEMALE SUB | 120532 | 14.8 | 120542 | 15.6 | | 560.56 |
| | O-RING | 120594 | 0.2 | 120594 | 0.2 | | 9.52 |
| *6" | UNION | 120630 | 90.9 | 120640 | 94.6 | 1 | 1,680.80 |
| | NUT | 120693 | 41.5 | 120693 | 41.5 | | 806.88 |
| | MALE SUB W/ O-RING | 120634 | 22.7 | 120644 | 24.9 | | 554.68 |
| | FEMALE SUB | 120632 | 26.7 | 120642 | 28.1 | | 647.09 |
| | O-RING | 120694 | 0.18 | 120694 | 0.18 | | 21.01 |

*5" and *6" fig 1002 - 7,500 psi cwp* - 11,250 psi test

combination ends

| | | WEIGHT | | QTY. | |
|-----------------|------------------------------------|---------------|------|---------------|-----------------|
| *5" x 4" | UNION 4" NPT BOTH ENDS | 125400 | 63.9 | 1 | 1,699.20 |
| | MALE SUB | 125401 | 17.3 | | 705.85 |
| | FEMALE 4" SC | 125402 | 20 | | 747.92 |
| | NUT | 120593 | 26.6 | | 660.30 |
| *5" x 4" | | BW 160 | | BW XXH | QTY. |
| | UNION 5" 160 or XXH x 4" SC | 125450 | 60.6 | 125440 | 1 |
| | MALE 5" BW 160 / XXH W/ O-RING | 120534 | 14 | 120544 | |
| | FEMALE 4" SC | 125402 | 20 | 125402 | |
| *4" x 5" | NUT | 120593 | 26.6 | 120593 | 660.30 |
| | UNION 4" SC x 5" 160 or XXH | 124560 | 59.4 | 124540 | 1 |
| | MALE 4" SC W/ O-RING | 125401 | 17.3 | 125401 | |
| | FEMALE 5" BW 160 / XXH | 120532 | 14.8 | 120542 | |
| | NUT | 120593 | 26.6 | 120593 | 660.30 |

*cwp is cold working pressure

figure 1003

3" - 10,000 psi cwp* - 15,000 psi test

4", 5", 6" - 7,500 cwp* - 11,250 psi test

misaligning union w/ o'ring

threaded ends

black nut / green subs

| | | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|-----------|--------------------|---------------|---------------|-----------------|---------------|
| 3" | UNION | 130300 | 46.2 | 2 | 784.37 |
| | NUT | 130393 | 22.6 | | 376.48 |
| | MALE SUB W/ O-RING | 130304 | 14 | | 317.77 |
| | FEMALE SUB | 130302 | 9.3 | | 301.96 |
| | O'RING | 130394 | 0.2 | | 6.60 |
| 4" | UNION | 130400 | 76.5 | 1 | 938.18 |
| | NUT | 130493 | 37.7 | | 740.58 |
| | MALE SUB W/ O-RING | 130404 | 22.8 | | 386.05 |
| | FEMALE SUB | 130402 | 16.1 | | 361.19 |
| | O'RING | 130494 | 0.2 | | 7.90 |

butt weld schedule 160 / butt weld xxh

| | PART NUMBER AND WEIGHT (LBS.) | | | | PRICE | |
|-----------|-------------------------------|---------------|--------|---------------|-------|-----------------|
| | BW 160 | | BW XXH | | | |
| 3" | UNION | 130330 | 48.1 | 130340 | 49.6 | 902.25 |
| | NUT | 130393 | 22.6 | 130393 | 22.6 | 376.48 |
| | MALE SUB W/ O.R. | 130334 | 15.8 | 130344 | 17 | 395.77 |
| | FEMALE SUB | 130332 | 9.4 | 130342 | 9.7 | 354.74 |
| | O'RING | 130394 | 0.2 | 130394 | 0.2 | 6.60 |
| 4" | UNION | 130430 | 77.7 | 130440 | 78.7 | 1,153.00 |
| | NUT | 130493 | 37.7 | 130493 | 37.7 | 740.58 |
| | MALE SUB W/O.R. | 130434 | 23.5 | 130444 | 24.1 | 492.13 |
| | FEMALE SUB | 130432 | 16.4 | 130442 | 16.9 | 446.94 |
| | O'RING | 130494 | 0.2 | 130494 | 0.2 | 7.90 |
| 5" | UNION | 130530 | 78.3 | 130540 | 79 | 1,989.73 |
| | NUT | 130593 | 37.7 | 130593 | 37.7 | 766.06 |
| | MALE SUB W/ O.R. | 130534 | 23.1 | 130544 | 23.5 | 814.89 |
| | FEMALE SUB | 130532 | 17.5 | 130542 | 17.9 | 766.06 |
| | O'RING | 130494 | 0.2 | 130494 | 0.2 | 7.90 |
| 6" | UNION | 130630 | - | 130640 | 179.3 | 3,580.30 |
| | NUT | 130693 | 103 | 130693 | 103 | 1,856.45 |
| | MALE SUB W/ O.R. | 130634 | - | 130644 | 45.9 | 1,624.48 |
| | FEMALE SUB | 130632 | - | 130642 | 29 | 1,458.76 |
| | O'RING | 130694 | 0.25 | 130694 | 0.25 | 7.90 |

*cwp is cold working pressure

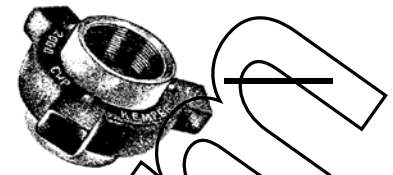
figure 1502 - 15,000 psi cwp* - 22,500 psi test
union w/ seal ring threaded ends blue nut / red subs

| | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|---------------|-------------------------|---------------|-----------------|---------------|
| 1" | UNION | 150100 | 8.7 | 224.54 |
| | NUT | 150193 | 4.6 | 151.22 |
| | MALE SUB | 150101 | 1.8 | 113.57 |
| | FEMALE SUB W/ SEAL RING | 150105 | 2.3 | 142.43 |
| | SEAL RING | 620195 | 0.1 | 5.56 |
| 1 1/2" | UNION | 151500 | 18.3 | 498.52 |
| | NUT | 151593 | 10.4 | 203.58 |
| | MALE SUB | 151501 | 3.7 | 164.53 |
| | FEMALE SUB W/ SEAL RING | 151505 | 4.2 | 253.66 |
| | SEAL RING | 621595 | 0.1 | 7.85 |
| 2" | UNION | 150200 | 19.5 | 221.62 |
| | NUT | 150293 | 8.9 | 93.11 |
| | MALE SUB | 150201 | 5.2 | 83.93 |
| | FEMALE SUB W/ SEAL RING | 150205 | 5.4 | 112.58 |
| | SEAL RING | 620295 | 0.1 | 6.97 |
| 3" | UNION | 150300 | 31.8 | 534.30 |
| | NUT | 150393 | 14.3 | 281.88 |
| | MALE SUB | 150301 | 8.5 | 189.49 |
| | FEMALE SUB W/ SEAL RING | 150305 | 9 | 228.75 |
| | SEAL RING | 620395 | 0.11 | 10.04 |

figure 1502 - 15,000 psi cwp* - 22,500 psi test
non-pressure seal union w/ seal ring
blue nut / light red subs

| | | | | | |
|-----------|-------------------------|---------------|----------|----------|----------|
| 4" | UNION | 150470 | - | 2 | - |
| | NUT | 150493 | 35.2 | | 591.49 |
| | MALE SUB | 150471 | 14.9 | | 666.74 |
| | FEMALE SUB W/ SEAL RING | 150475 | 10 | | 777.87 |
| | SEAL RING | 150495 | 0.1 | | 84.60 |

*cwp is cold working pressure
* POR = Price On Request



**figure 1502 - 15,000 psi cwp* - 22,500 psi test
union w/ seal ring**

butt weld schedule 160 and butt weld xxh

| | PART NUMBER AND WEIGHT (LBS.) | | | | CARTON QTY. | PRICE | |
|---------------|-------------------------------|---------------|-------|---------------|----------------|----------|-----------------|
| | | BW 160 | | BW XXH | | | |
| 1" | UNION | 150130 | 8.4 | 150140 | 8.6 | 9 | 587.76 |
| | NUT | 150193 | 4.6 | 150193 | 8.9 | | 151.22 |
| | MALE SUB | 150131 | 1.7 | 150141 | 1.8 | | 250.95 |
| | FEMALE SUB W/ S.R. | 150135 | 2.2 | 150145 | 2.2 | | 250.95 |
| | SEAL RING | 620195 | 0.1 | 620195 | 0.1 | | 5.56 |
| 1 1/2" | UNION | 151530 | 18 | 151540 | 18.5 | 5 | 531.08 |
| | NUT | 151593 | 10.4 | 151593 | 10.4 | | 203.58 |
| | MALE SUB | 151531 | 3.7 | 151541 | 3.9 | | 201.60 |
| | FEMALE SUB W/ S.R. | 151535 | 4 | 151545 | 4.2 | | 288.24 |
| | SEAL RING | 621595 | 0.1 | 621595 | 0.1 | | 24.34 |
| 2" | UNION | 150230 | 19.2 | 150240 | 19.9 | 5 | 313.25 |
| | NUT | 150293 | 8.9 | 150293 | 8.9 | | 93.11 |
| | MALE SUB | 150231 | 5.1 | 150241 | 5.4 | | 138.53 |
| | FEMALE SUB W/ S.R. | 150235 | 5.4 | 150245 | 5.6 | | 184.76 |
| | SEAL RING | 620295 | 0.1 | 620295 | 0.1 | | 6.97 |
| 3" | UNION | 150330 | 27.6 | 150340 | 28.7 | 4 | 610.01 |
| | NUT | 150393 | 14.3 | 150393 | 14.3 | | 281.88 |
| | MALE SUB | 150331 | 6.692 | 150341 | 7.5 | | 228.75 |
| | FEMALE SUB W/ S.R. | 150335 | 6.5 | 150345 | 7.4 | | 350.01 |
| | SEAL RING | 620395 | 0.11 | 620395 | 0.11 | | 10.04 |
| 4" | UNION | 150430 | 79.9 | 150440 | 83.4 | 1 | 2,089.78 |
| | MALE SUB | 150431 | 21.1 | 150441 | 23.1 | | 1,109.16 |
| | FEMALE SUB W/ S.R. | 150435 | 20.6 | 150445 | 22 | | 1,514.34 |
| | NUT COMPLETE | 150494 | 38.5 | 150494 | 38.5 | | 1,152.79 |
| | SEAL RING | 150495 | 0.1 | 150495 | 0.1 | | 84.60 |
| | RETAINING RING | 150496 | - | 150496 | - | | - |
| | SEGMENT RING | 150497 | 2.9 | 150497 | 2.9 | | 512.94 |
| 5" | UNION | N/A | | 150540 | 93.9 | 1 | 3,602.82 |
| | NUT | | | 150593 | 45.7 | | 1,729.16 |
| | MALE SUB | | | 150541 | 24.7 | | 1,188.93 |
| | FEMALE SUB W/ S.R. | | | 150545 | 23.6 | | 1,582.62 |
| | SEAL RING | | | 150495 | 0.1 | | 84.60 |

*cwp is cold working pressure

figure 2002 - 20,000 psi cwp* - 30,000 psi test
butt weld green nut / gray subs

| | PART NUMBER | WEIGHT POUNDS | CARTON QUANTITY | PRICE |
|-----------|-------------------------|---------------|-----------------|---------------|
| 2" | UNION | 200290 | 4 | 665.08 |
| | NUT COMPLETE | 200293 | 12.4 | 301.13 |
| | MALE SUB | 200291 | - | - |
| | FEMALE SUB W/ SEAL RING | 200295 | - | - |
| | SEAL RING | 200296 | 0.15 | 125.79 |
| | RETAINING RING | 99900056 | 0.1 | 10.61 |
| | SEGMENTED RING | 999001 | 0.7 | 198.90 |

figure "G" - 6000 psi cwp* - 9000 psi test
union w/ seal ring threaded ends yellow nut / silver subs

| | | | | |
|---------------|---------------------------|---------------|-----------|---------------|
| 1 1/2" | UNION | G61500 | 10 | 163.23 |
| | NUT | G61593 | 3.1 | 90.84 |
| | MALE SUB | G61501 | 1.5 | 73.53 |
| | FEMALE SUB WITH SEAL RING | G61505 | 2.3 | 106.08 |
| | SEAL RING | G61595 | 0.2 | 9.52 |
| 2" | UNION | G60200 | 7 | 186.26 |
| | NUT | G60293 | 4.2 | 103.53 |
| | MALE SUB | G60201 | 2.7 | 83.62 |
| | FEMALE SUB WITH SEAL RING | G60205 | 4.4 | 131.98 |
| | SEAL RING | G60295 | 0.3 | 12.90 |

viton seals rings for H2S service
(highly saturated nitrile seal rings available upon request)

| | | | | PRICE |
|---------------|------------------|---------|------|---------------|
| 1" | SEAL RING | V620195 | 0.1 | 44.30 |
| 1 1/2" | SEAL RING | V621595 | 0.1 | 87.05 |
| 2" | SEAL RING | V620295 | 0.15 | 75.71 |
| 3" | SEAL RING | V620395 | 0.1 | 108.58 |
| 4" | SEAL RING | V620495 | 0.2 | 176.54 |

viton o'rings

| | | | | |
|-----------|---------------|---------|------|--------------|
| 5" | O-RING | V120594 | 0.2 | 22.88 |
| 6" | O-RING | V120694 | 0.25 | 73.84 |

*cwp is cold working pressure