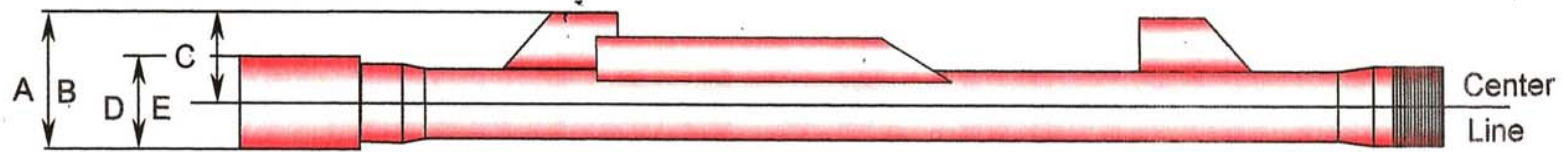


CONVENTIONAL MANDRELS



Dimensions in Inches

- A - Lug to Collar
- B - Lug to Collar - special clearance
- C - Lug to Center Line of Tubing
- D - Collar Diameter
- E - Collar Diameter - special clearance

DIMENSIONAL DATA

| VALVE SIZE | THREAD TYPE | TUBING SIZE | A | B | C | D | E |
|------------|-------------|-------------------------------|-------|-------|-------|-------|-------|
| 1" | API EUE | 2.375" O.D. 2" NOMINAL | 3.783 | 3.706 | 2.251 | 3.063 | 2.910 |
| 1" | API EUE | 2-7/8" O.D. 2-1/2" NOMINAL | 4.335 | 4.231 | 2.501 | 3.668 | 3.460 |
| 1" | API NUE | 2-3/8" O.D. 2" NOMINAL | 3.669 | 3.586 | 2.251 | 2.875 | 2.670 |
| 1" | API NUE | 2-7/8" O.D. 2-1/2" NOMINAL | 4.251 | 4.119 | 2.501 | 3.500 | 3.235 |
| 1-1/2" | API EUE | 2.375" O.D. 2" NOMINAL | 4.283 | 4.206 | | 3.063 | 2.910 |
| 1-1/2" | API EUE | 2-7/8" O.D. 2-1/2" NOMINAL | 4.835 | 4.731 | | 3.668 | 3.460 |
| 1-1/2" | API EUE | 3-1/2" O.D. 3" NOMINAL | 5.562 | 5.427 | | 4.500 | 4.230 |
| 1-1/2" | API NUE | 2-3/8" O.D. 2" NOMINAL | 4.189 | 4.086 | | 2.875 | 2.670 |
| 1-1/2" | API NUE | 2-7/8" O.D. 2-1/2" NOMINAL | 4.751 | 4.619 | | 3.500 | 3.235 |
| 1-1/2" | API NUE | 3-1/2" O.D. 3" NOMINAL | 5.262 | 5.152 | | 4.250 | 4.030 |