

COPPER END FEED CAPILLARY FITTINGS TO ASME B16.22



- **KEMBLA** fittings are manufactured from thicker wall copper tubes to give a 4 time safety factor of Safe Working Pressure as specified in ASME B16.22
- **KEMBLA's** fittings are marked to R410A for suitability to high-pressure refrigerant systems. R410A refrigerant operates at temperatures up to 65°C and pipes and fittings must have a Safe Working Pressure greater than 4130 kPa at this temperature.
- 15% silver solder is recommended for brazing tube for use with high pressure refrigerants. Fittings must be cleaned and suitable flux used for a good flow of solder.

| Copper Tube Outside Diameter | | Kembla Standard Fittings Safe Working Pressure (kPa) | | Kembla R410A Fittings Safe Working Pressure (kPa) | |
|---------------------------------|-------------|---|------------------------------|--|------------------------------|
| Imperial (inches) | Metric (mm) | Up to 50° C | Over to 50°, Up to Up to 75° | Up to 50° C | Over to 50°, Up to Up to 65° |
| 1/4 | 6.35 | 7850 | 6594 | 7850 | 7045 |
| 3/8 | 9.52 | 6280 | 5275 | 6280 | 5636 |
| 1/2 | 12.70 | 5360 | 4502 | 5360 | 4811 |
| 5/8 | 15.88 | 4970 | 4175 | 4970 | 4461 |
| 3/4 | 19.05 | 4350 | 3654 | 4639 | 4164 |
| 7/8 | 22.22 | 4010 | 3368 | 4681 | 4202 |
| 1 | 25.40 | 3410 | 2864 | 4783 | 4293 |
| 1 1/8 | 28.58 | 3400 | 2856 | 4574 | 4161 |
| 1 3/8 | 34.92 | 3020 | 2537 | 4982 | 4411 |
| 1 5/8 | 41.28 | 2810 | 2360 | 5062 | 4543 |
| 2 1/8 | 53.98 | 2500 | 2100 | | |
| 2 5/8 | 66.68 | 2310 | 1940 | | |
| 3 1/8 | 79.38 | 2180 | 1831 | | |

Note: Safe Working Pressures shown above for Standard Fittings are from ASME B16.22

Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings.

Safe Working Pressures for R410A Fittings are calculated from information provided in ASME B31.9 Building Services Piping.