CLAIMS

What is claimed is:

1. A connector fitting for fluid handling comprising:

a coupling leg defining a bore that extends therethrough, said coupling leg and said bore being concentric about a leg axis, said coupling leg including a neck portion, a shoulder portion extending distal to said neck portion, a threaded portion extending distal to said shoulder portion, and a nipple portion extending distal to said threaded portion, said neck portion including locking features extending radially outward from the neck portion, wherein said locking features include a flange extending radially outward from said neck portion and a plurality of partitions extending distally from said flange, said flange and said plurality of partitions cooperating to define a plurality of pockets;

a nut threadably engaged with said threaded portion of the coupling leg, and

a locking ring that defines and is concentric about a locking ring axis, said locking ring including an inner surface that includes one or more tabs that project radially inward toward said locking ring axis, said one or more tabs being configured to mate within one or more of the plurality of pockets,

wherein said coupling leg and said nut are made of a melt processible resin.

2. The connector fitting of claim 1, wherein said locking features include a plurality of protrusions distributed about said leg axis at uniform angular intervals.

3. The connector fitting of claim 2, wherein each of said plurality of protrusions (i) extend distally from said flange portion and proximally from said shoulder portion, (ii) include opposing flat sides that face tangentially about said leg axis and a flat top that faces radially outward from said leg axis, or (iii) both (i) and (ii).

4. The connector fitting of claim 1, wherein said locking features include a plurality of spacers on opposing sides of the neck portion, said spacers extending orthogonal to

said leg axis and including first and second opposing ends, wherein said first opposing ends of said plurality of spacers define a first plane, and said second opposing ends of said plurality of spacers define a second plane, said first plane and said second plane being parallel to each other and on opposing sides of said coupling leg.

5. A wrench for tightening the connector fitting of claim 2, the wrench comprising:

a first head having a body portion;

a first leg and a second leg extending in opposing directions from said body portion;

a first tooth that cooperates with the first leg to define a first notch on the first leg;

a second tooth that cooperates with the body portion to define a second notch on said body portion; and

an end boss defined at a distal end of said second leg,

wherein said first notch, said second notch, and said end boss are centered about a rotation axis.

6. A method of installing the connector fitting of claim 2, comprising:

providing at least one wrench of claim 6;

providing a set of installation instructions, said installation instructions comprising:

securing said connector fitting by bringing said first notch of the wrench into contact with a first of said plurality of protrusions, said second notch into contact with a second of said plurality of protrusions, and said end boss into contact with a third of said plurality of notches; and

tightening said nut onto said threaded portion of said coupling leg.

7. The connector fitting of claim 1, wherein the connector fitting is made from at least one of perfluoroalkoxy alkane (PFA), ethylene tetrafluoroethylene (ETFE), and fluorinated ethylene propylene (FEP).