

CLAIMS

1. A container connector that is connectable to a container, comprising:

5 a base in which a flow path is formed,
 an engagement section disposed on a circle set to the base,

 a guiding section disposed continuously with the engagement section, and having a guide surface formed as a
10 curved surface to guide the container to the engagement section and facing a side of an axis of the circle, and

 an arm provided in the base, and movably supporting the guiding section in a direction toward the axis of the circle and a direction away from the axis,

15 wherein a pair of guiding sections and a pair of engagement sections are provided on the arm symmetrically to a second virtual plane that is orthogonal to a first virtual plane that passes along the axis and is parallel to the axis, and

20 wherein the pair of guiding sections provided in the arm are continuously formed,

 the axis has a vertical direction and in a cross section of the guiding section in a horizontal direction to the axis, one side end of the guide surface on a side of
25 the second virtual plane is located at a position away from the axis relative to another side end of the guide surface on a side opposite to the second virtual plane, in a

direction orthogonal to the axis and parallel to the second virtual plane,

the one side end of the guide surface is formed as a straight line or a curved line, and

5 the guide surface is formed as a curved surface so that a radius of curvature decreases from a side of the one side end toward a side of the other side end.

2. The container connector according to claim 1, wherein a pair of the arms are provided.

10 3. The container connector according to claim 1, wherein a pair of the arms are provided symmetrically to the first virtual plane,

the guiding section extends from the engagement section in an axial direction of the circle, and

15 the guide surface is formed as a curved surface including a tangent line having an inclination angle to the first virtual plane which decreases with closer proximity to the engagement section from an end portion of the guide surface on a side opposite to the engagement section in the axial direction.

20 4. The container connector according to claim 1, wherein the one side end of the guide surface is formed as a straight line,

an inclination angle of a tangent line of an end portion of the other side end of the guide surface on a side of the engagement section to the first virtual plane is smaller than an inclination angle of an extension of the

one side end of the guide surface to the first virtual plane, and

an inclination angle of the tangent line of an end portion of the other side end of the guide surface on a side opposite to the engagement section to the first virtual plane is larger than the inclination angle of the extension of the one side end of the guide surface to the first virtual plane.

5. The container connector according to claim 1, wherein the arm comprises:

a first extending portion extending from the base to a side opposite to the guiding section in an axial direction of the circle, and

a second extending portion turned up to the first extending portion and extending on a side of the guiding section.

6. Connection equipment comprising:

the container connector according to claim 1, and

a syringe connector removably formed in the base of the container connector, and including a flow path for the syringe connector which communicates with the flow path of the base in a state of being attached to the base.

7. A container connector that is connectable to a container, comprising:

a base in which a flow path is formed,

an engagement section disposed on a circle set to the base,

a guiding section disposed continuously with the engagement section, and having a guide surface formed as a curved surface to guide the container to the engagement section and facing a side of an axis of the circle, and

5 an arm provided in the base, and movably supporting the guiding section in a direction toward the axis of the circle and a direction away from the axis, wherein the arm comprises:

10 a first extending portion extending from the base to a side opposite to the guiding section in an axial direction of the circle, and

a second extending portion turned up to the first extending portion and extending on a side of the guiding section.

15 8. The container connector according to claim 7, wherein a pair of the arms are provided.

9. The container connector according to claim 7, wherein a pair of the arms are provided symmetrically to a first virtual plane that passes along the axis and is
20 parallel to the axis,

the guiding section extends from the engagement section in an axial direction of the circle, and

the guide surface is formed as a curved surface including a tangent line having an inclination angle to the first virtual plane which decreases with closer proximity
25 to the engagement section from an end portion of the guide surface on a side opposite to the engagement section in the

axial direction.

10. The container connector according to claim 9,
wherein a pair of guiding sections and a pair of engagement
sections are provided on the arm symmetrically to a second
5 virtual plane that passes along the axis and is orthogonal
to the first virtual plane.

11. The container connector according to claim 10,
wherein the pair of guiding sections provided in the arm
are continuously formed,

10 the axis has a vertical direction and in a cross
section of the guiding section in a horizontal direction to
the axis, one side end of the guide surface on a side of
the second virtual plane is located at a position away from
the axis relative to another side end of the guide surface
15 on a side opposite to the second virtual plane, in a
direction orthogonal to the axis and parallel to the second
virtual plane,

the one side end of the guide surface is formed as a
straight line or a curved line, and

20 the guide surface is formed as a curved surface so
that a radius of curvature decreases from a side of the one
side end toward a side of the other side end.

12. The container connector according to claim 11,
wherein the one side end of the guide surface is formed as
25 a straight line,

an inclination angle of a tangent line of an end
portion of the other side end of the guide surface on a

side of the engagement section to the first virtual plane is smaller than an inclination angle of an extension of the one side end of the guide surface to the first virtual plane, and

5 an inclination angle of the tangent line of an end portion of the other side end of the guide surface on a side opposite to the engagement section to the first virtual plane is larger than the inclination angle of the extension of the one side end of the guide surface to the
10 first virtual plane.

13. Connection equipment comprising:

the container connector according to claim 7, and

a syringe connector removably formed in the base of the container connector, and including a flow path for the
15 syringe connector which communicates with the flow path of the base in a state of being attached to the base.