CLAIMS

1. A bag with a port member comprising:

a bag having an opening; and

a port member attached to the opening;

wherein the port member has a tubular insertion portion and a bag side connection portion that is connected to a container side connection portion of other container, and

wherein the bag is positioned on the innermost circumferential face side of the bag with a port member on an inner face of the insertion portion.

2. The bag with a port member according to Claim 1, wherein a tapered portion formed by reducing the thickness of the insertion portion is provided at an end portion of the insertion portion on the bag side.

3. The bag with a port member according to Claim 1 or 2, wherein the bag has seal parts, and thickness portions formed by increasing the thickness of the insertion portion are formed in portions that overlap the seal parts at the end portion of the insertion portion on the bag side.

4. The bag with a port member according to any one of Claims 1 to 3, wherein the port member is formed in the periphery of the bag using insert molding.

5. The bag with a port member according to Claim 4, wherein a step portion formed by reducing the diameter of an inner circumferential face of the insertion portion toward the end portion side of the bag side is formed along the circumferential direction of the insertion portion, and the position of the step portion coincides with the position of an end face of the bag on the opening side.

6. The bag with a port member according to Claim 1,

wherein the bag has a neck in which the opening is formed and a bag main body that is connected on the side opposed to the side on which the opening of the neck is formed,

wherein the port member has a port member main body that includes the tubular insertion portion in which an insertion hole into which the neck of the bag is inserted is formed and a ring member into which the insertion portion is fitted on the inner circumference side,

wherein the bag is attached to the port member in such a way that the neck of the bag is inserted into the insertion hole from a bag main body side opening on one side out of openings on both ends of the insertion hole and comes out of the insertion hole from a connection side opening on the other side of the insertion hole, and in the neck, an opening side portion of the neck that comes out of the insertion hole is folded so as to follow an outer circumferential face of the insertion portion so as to be interposed between an inner circumferential face of the ring member and the outer circumferential face of the insertion portion that is fitted on the inner circumference side of the ring member, and

wherein the bag side connection portion is formed on either of an outer circumference side of the port member main body or of the ring member.

7. The bag with a port member according to Claim 6, wherein the port member main body has a flange portion as the bag side connection portion outwardly protruding along the radial direction of the insertion portion from a position that is on the outer circumferential face of the insertion portion and is on the bag main body side opening side with respect to the connection side opening of the insertion hole.

8. The bag with a port member according to Claim 6 or 7, wherein, on one face of the inner circumferential face of the ring member or the outer circumferential face of the insertion portion, a convex portion that projects on the other face side is formed,

and a concave portion into which the convex portion is fitted is formed on the other face side.

9. The bag with a port member according to any one of Claims 6 to 8, wherein the neck of the bag is not adhered to the inner circumferential face of the insertion hole, and thereby a portion of the neck that faces the inner circumferential face of the insertion hole can be relatively displaced on the inner circumferential face in a radial direction of the insertion hole..

10. The bag with a port member according to any one of Claims 6 to 9, wherein handles that are formed by outwardly extending the diameter of an outer circumferential face of the port member main body in the radial direction are formed, and positions of the handles define a range which is permitted to an operator in touching the port member main body during handling of the bag with a port member.

11. A connection structure of a bag with a port member comprising:

the bag with a port member according to any one of Claims 1 to 10; and

a connection nozzle of other container to which the bag with a port member is connected,

wherein the connection nozzle has the container side connection portion to which the bag side connection portion of the bag with a port member is connected, and a connection portion into which at least one portion of the port member of the bag with a port member is slotted.

CLAIMS

1. A bag with a port member comprising:
a bag having an opening and a port member attached to the opening,
wherein the port member has a tubular insertion portion and a bag side connection portion that is connected to a container side connection portion of other container,
the bag is positioned on the innermost circumferential face side of the bag with a port member on an inner face of the insertion portion, and the port member is formed in the periphery of the bag using insert molding, and
wherein a step portion formed by reducing the diameter of an inner circumferential face of the insertion portion toward the end portion side of the bag side is formed along the circumferential direction of the insertion portion, and the position of the step portion coincides with the position of an end face of the bag on the opening side.

2. The bag with a port member according to Claim 1, wherein a tapered portion formed by reducing the thickness of the insertion portion is provided at an end portion of the insertion portion on the bag side.

3. The bag with a port member according to Claim 1 or 2, wherein the bag has seal parts, and thickness portions formed by increasing the thickness of the insertion portion are formed in portions that overlap the seal parts at the end portion of the insertion portion on the bag side.

4. The bag with a port member according to any one of Claims 1 to 3, wherein handles that are formed by outwardly extending the diameter of an outer circumferential face of the insertion portion of the port member in the radial direction are formed, and positions of the handles define a range which is permitted to an operator in touching the port member main body during handling of the bag with a port member.

5. A connection structure of a bag with a port member comprising:
the bag with a port member according to any one of Claims 1 to 4; and
a connection nozzle of other container to which the bag with a port member is connected,

wherein the connection nozzle has the container side connection portion to which the bag side connection portion of the bag with a port member is connected, and a connection portion into which at least one portion of the port member of the bag with a port member is slotted.