CLAIMS

Claim 1: Connecting piece assembly for a process connection of in particular a fitting or a sensor (5), having a first stationary connecting piece element (1) and characterized by

a second replaceable connecting piece element (2) which is designed so as to be at least partly receivable by a receiving opening (4) of the first stationary connecting piece element (1),

wherein the second replaceable connecting piece element (2) has an outer thread (6) for attaching a union nut (8) of the fitting or the sensor (5),

wherein at least one holding device (3) is provided which is designed to hold together the first stationary connecting piece element (1) and the second replaceable connecting piece element (2), and

wherein the second replaceable connecting piece element (2) has a circumferential flange (9) which comprises at least one projection or at least one recess (10) which forms an interlocking connection with at least one opposite recess or with at least one opposite projection (12) of a circumferential flange (11) of the first stationary connecting piece element (1).

Claim 2: Connecting piece assembly according to claim 1, wherein the circumferential flange (11) of the first stationary connecting piece element (1) and the circumferential flange (9) of the second stationary connecting piece element (2) each have a bevel (9a, 11a), so that the assembled flange tapers outward in the assembled state.

Claim 3: Connecting piece assembly according to claim 1 or 2, wherein the holding device (3) is designed to enclose in a clamping manner and press together the flange (11) of the first stationary connecting piece element (1) and the flange (9) of the second replaceable flange element (2).

Claim 4: Connecting piece assembly according to any of the preceding claims, wherein the receiving opening (4) of the first stationary connecting piece element (1) comprises an inlet opening (14) which is designed such that the fitting or the sensor (5) can be guided through it.

Claim 5: Connecting piece assembly according to claim 4, wherein the second replaceable connecting piece element (2) has a through-hole (15) which corresponds with the inlet opening (14) of the first stationary connecting piece element (1).

Claim 6: Connecting piece assembly according to claim 5, wherein the through-hole (15) of the second replaceable connecting piece element (2) has a beveled transition region (19) between a bore portion with a larger inner diameter (d1) and a bore portion with a smaller inner diameter (d2), wherein the bore portion with the smaller inner diameter (d2) adjoins the inlet opening (14) of the first stationary connecting piece element (1) in a flush manner.

Claim 7: Connecting piece assembly according to claim 6, wherein the smaller inner diameter (d2) is 25 mm with a tolerance of H7 or 40 mm with a tolerance of H7.

Claim 8: Connecting piece assembly according to any of the preceding claims, wherein the outer diameter (d4) of the part of the second replaceable connecting piece element (2) received by the first stationary connecting piece element (1) is smaller than the inner diameter (d3) of the receiving opening (13) of the first stationary connecting piece element (1).

Claim 9: Connecting piece assembly according to any of the preceding claims, wherein an annular sealing element (16) is arranged between the first stationary connecting piece element (1) and the second replaceable connecting piece element (2).

Claim 10: Connecting piece assembly according to claim 9, wherein the annular sealing element (16) forms a seat for the second replaceable connecting piece element (2), wherein, in the mounted state, it also surrounds the side walls of the second replaceable connecting piece element in a sealing manner, at least in the lower region.

Claim 11: Connecting piece assembly according to claim 9 or 10, wherein the annular sealing element (16) has a circumferential bead (17) which is received in a sealing manner by corresponding grooves (21, 22) on an underside of the second replaceable connecting piece element (2) and a receiving bottom (18) of the first stationary connecting piece element (1).

Claim 12: Process container having at least one connecting piece assembly according to any of the preceding claims, and a fitting or a sensor (5), wherein the first stationary connecting piece element (1) of the connecting piece assembly is welded into a wall (31) of the process container (30).

Claim 13: Process container according to claim 12, wherein a snap ring (13) is arranged at an end of the fitting or the sensor (5) facing its base (19), by means of which the fitting or the sensor (5) is pushed back when the union nut (8) is unscrewed.

Claim 14: Process container according to claim 12 or 13, wherein the first stationary connecting piece element (1) has an upward incline of about 15% with respect to a perpendicular (s) to the container wall (31).