Claims

1 System for providing a conduit sealingly to a through-opening in a plate-shaped construction element so that at least one pipe and/or cable can extend through the conduit and so that after sealing remaining space in the conduit a completely sealed-off pipe and/or cable penetration through the plate-shaped construction element is obtained, wherein the system is such that it is mechanically mountable, wherein the system is further such that it is mountable from only one side of the plate-shaped construction element, wherein the system comprises: a conduit-part having a conduit for extending from and/or through the through-opening and having outside the conduit a circumferentially extending member for placement at a proximal side of the plate-shaped construction element parallel to a circumference of the through-opening; an anchor-part for placement at a distal side of the plate-shaped construction element at a number of positions along a circumference of the through-opening; and at least one connecting element for connecting the circumferentially extending member of the conduit-part with the anchor-part, wherein the anchor-part is suitable for being put from the proximal side of the plate-shaped construction element, through the through-opening, at the distal side of the plate-shaped construction element, wherein one of the at least one connecting element for connecting the circumferentially extending member of the conduit-part with the anchor-part allows for placement of the anchor-part at the distal side of the plate-shaped

construction element at the number of positions along a circumference of the through-opening whilst being connected to the conduit-part, wherein whilst being connected the anchor part can be put through the through-opening and placed at the distal side of the plate-shaped construction element.

2 System according to claim 1, wherein the system is mountable by only one worker, who is operating from a proximal side of the plate-shaped construction element.

3 System according to claim 1 or 2, wherein the at least one connection element is suitable for bringing the conduit-part at a proximal side of the plate-shaped construction element parallel to a circumference of the through-opening whilst bringing or keeping the anchor-part at the number of positions along a circumference of the through-opening at the distal side of the plate-shaped construction element, so that the plate-shaped construction element can be clamped in by the conduit-part and the anchor-part.

4 System according to any one of claims 1-3, wherein the anchor-part is a single-part device.

5 System according to any one of claims 1-4, wherein the anchor-part is C or U shaped or can adopt a C or U shape.

6 System according to any one of claims 1-5, wherein the anchor-part has an outer contour defined by the most outer dimensions of the anchor part and an inner contour defining free space, the anchor part having

between the outer contour and the inner contour close to the inner contour at least one connection part for connecting via at least one of the connection elements with a part of the conduit-part that is outside an inner circumference of the conduit so that when the system is in a mounted condition the conduit can be in the free space of the anchor part or an imaginary extension of the conduit in an axial direction thereof can be in the free space of the anchor-part.

7 System according to any one of the claims 1-6, wherein the circumferentially extending member of the conduit part comprises a first seat for a sealing gasket for positioning between the plate-shaped construction element and the conduit-part.

8 System according to claim 7, wherein the first seat comprises an annularly shaped cavity in the circumferentially extending member for hosting the sealing gasket.

9 System according to any one of the claims 1-8, wherein each of the at least one connecting elements is at a side that will remain in use at a proximal side of the plate-shaped construction element provided with a second seat for a second sealing gasket for positioning against the circumferentially extending member when the conduit-part and the anchor-part are brought together for clamping in between the plate-shaped construction element.

10 System according to claim 9, wherein each second seat comprises an annularly shaped cavity for hosting the second sealing gasket.

11 System according to any one of claims 1-10, wherein the anchor part is provided with a fixator for at

least temporarily fixating the anchor part against a distal side of plate-shaped construction element at a number of positions along a circumference of the through-opening.

12 System according to claim 11, wherein the fixator is self-clamping into through-opening.

13 System according to any one of claim 11 or 12, wherein the fixator comprises at least one lip, wherein the lip is preferably hook-shaped so as allow the anchor part to hang on a rim of the through-opening.

14 System according to any one of the claims 11-13, wherein the fixator comprises adhesive tape or a glue.

15 System according to any one of claims 1-14, wherein the anchor-part is such that it can in a stable position be positioned at the distal side of the plate-shaped construction element whilst it is connected to the conduit part when that is positioned at a proximal side of the plate-shaped construction element parallel to a circumference of the through-opening.

16 Method for providing a conduit sealingly to a through-opening in a plate-shaped construction element so that at least one pipe and/or cable can extend through the conduit and so that after sealing the remaining space in the conduit a completely sealed-off pipe and/or cable penetration through the plate-shaped construction element is obtained, wherein the method comprises mechanically mounting the conduit to the through-opening, and wherein the method is further such that it comprises mounting from only one side of the plate-shaped construction

element, wherein the method further comprises:
providing a conduit-part having a conduit for extending from and/or through the through-opening and having outside the conduit a circumferentially extending member for placement at a proximal side of the plate-shaped construction element parallel to a circumference of the through-opening; wherein the method further comprises providing an anchor-part for placement at a distal side of the plate-shaped construction element at a number of positions along a circumference of the through-opening; wherein the method further comprises
providing at least one connecting element for connecting the circumferentially extending member of the conduit-part with the anchor-part, wherein the method comprises a step wherein the anchor-part is put from the proximal side of the plate-shaped construction element, through the through-opening, at the distal side of the plate-shaped construction element, wherein the at least one connecting element for connecting the circumferentially extending member of the conduit-part with the anchor-part, allows for placement of the anchor-part at the distal side of the plate-shaped construction element, at the number of positions along a circumference of the through-opening whilst being connected to the conduit-part, wherein whilst being connected the anchor-part is put through the through-opening and placed at the distal side of the plate-shaped construction element.

17 Method according to claim 16, wherein the method comprises mounting by only one worker, who is

operating from a proximal side of the plate-shaped construction element.

18 Method according to claim 16 or 17, wherein the method comprises bringing the conduit-part at a proximal side of the plate-shaped construction element parallel to a circumference of the through-opening whilst bringing or keeping the anchor-part at the number of positions along a circumference of the through-opening at the distal side of the plate-shaped construction element, so that the plate-shaped construction element can be or is clamped in by the conduit-part and the anchor-part.

19 Method according to any one of claims 16-18, wherein the anchor-part is a single-part device.

20 Method according to any one of claims 16-19, wherein the wherein the anchor-part is C or U shaped or can adopt a C or U shape.

21 Method according to any one of claims 16-20, wherein the anchor-part has an outer contour defined by the most outer dimensions of the anchor part and an inner contour defining free space, the anchor part having between the outer contour and the inner contour close to the inner contour at least one connection part for connecting via at least one of the connection elements with a part of the conduit-part that is outside an inner circumference of the conduit, wherein the mounting of the conduit to the through-opening comprises putting the conduit in the free space of the anchor part or putting the conduit such that an imaginary extension of the conduit in an axial direction thereof is in the free space of the anchor-part.

22 Method according to any one of the claims 16-21, wherein the method comprises positioning a first sealing gasket between the plate-shaped construction element and the conduit-part.

23 Method according to claim 22, wherein the method comprises providing the first sealing gasket in an annularly shaped cavity in the circumferentially extending member for hosting the first sealing gasket.

24 Method according to any one of the claims 16-23, wherein the method comprises providing between each of the at least one connecting elements at a side that will remain in use at a proximal side of the plate-shaped construction element and the circumferentially extending member a second sealing gasket when the conduit-part and the anchor-part are brought together for clamping in between the plate-shaped construction element.

25 Method according to claim 24, wherein the method comprises providing the second sealing gasket in a second seat for positioning a second sealing gasket against the circumferentially extending member when the conduit-part and the anchor-part are brought together for clamping in between the plate-shaped construction element.

26 Method according to claim 25, wherein each second seat comprises an annularly shaped cavity for hosting the second sealing gasket.

27 Method according to claim 26, wherein the method comprises at least temporarily fixating the anchor part against a distal side of plate-shaped construction element at a number of positions along a

circumference of the through-opening, before connecting the anchor-part and the conduit-part.

28 Method according to claim 27, wherein the method comprises self-clamping of the anchor-part into through-opening.

29 Method according to claim 27 or 28, wherein the method comprises fixing the anchor part around or to a rime of the through-opening at the distal side of the plate-shaped construction element.

30 Method according to any one of the claims 27-29, wherein the method comprises providing a fixator which comprises adhesive tape, a glue or at least one lip, wherein the lip is preferably hook-shaped so as allow the anchor part to hang on a rim of the through-opening.

31 Method according to any one of claims 16-30, wherein the method comprises positioning the anchor-part in a stable position at the distal side of the plate-shaped construction element whilst the anchor-part is connected to the conduit part when the conduit-part is positioned at a proximal side of the plate-shaped construction element parallel to a circumference of the through- opening.

32 Conduit assembly comprising a conduit sealingly provided to a through-opening in a plate-shaped construction element so that at least one pipe and/or cable can extend through the conduit and so that after sealing remaining space in the conduit a completely sealed-off pipe and/or cable penetration through the plate-shaped construction element is obtained, wherein the conduit has mechanically been mounted to the through-opening, without having to provide in addition to the through-opening further

through-openings through the plate-shaped construction element, wherein the conduit assembly comprises: a conduit-part having a conduit extending from and/or through the though-opening and having outside the conduit a circumferentially extending member placed at a proximal side of the plate-shaped construction element parallel to a circumference of the through-opening; an anchor-part that is placed at a distal side of the plate-shaped construction element at a number of positions along a circumference of the through-opening; and at least one connecting element that connects the circumferentially extending member of the conduit-part with the anchor-part, wherein the anchor-part is suitable for being put from the proximal side of the plate-shaped construction element, through the through-opening, at the distal side of the plate-shaped construction element at the number of positions along a circumference of the through-opening whilst being connected to the conduit-part, wherein whilst being connected the anchor part is put through the through-opening and placed at the distal side of the plate-shaped construction element.

33 Conduit assembly according to claim 32, wherein the conduit has been mounted such that it was possible to mount from a proximal side of the plate-shaped construction element, and by only one worker.

34 Conduit assembly according to claim 32 or 33, wherein the anchor-part is a single-part device.

35 Conduit assembly according to any one of claims 32-34, wherein the anchor-part is C or U shaped or can adopt a C or U shape.

36 Conduit assembly according to any one of claims 32-35, wherein the anchor-part has an outer contour defined by the most outer dimensions of the anchor part and an inner contour defining free space, the anchor part having between the outer contour and the inner contour close to the inner contour a connection part that connects via at least one of the connection elements with a part of the conduit-part that is outside an inner circumference of the conduit so that the conduit is in the free space of the anchor part or an imaginary extension of the conduit in an axial direction thereof is in the free space of the anchor-part.

37 Conduit assembly according to any one of the claims 32-36, wherein the circumferentially extending member of the conduit part comprises a first seat holding a sealing gasket which is positioned between the plate-shaped construction element and the conduit-part.

38 Conduit assembly according to claim 37, wherein the seat comprises an annularly shaped cavity in the circumferentially extending member for hosting the sealing gasket.

39 Conduit assembly according to any one of the claims 32-38, wherein each of the at least one connecting elements is at a side that will remain in use at a proximal side of the plate-shaped construction element provided with a second seat holding a second sealing gasket which is positioned against the circumferentially extending member.

40 Conduit assembly according to claim 39, wherein second seat comprises an annularly shaped cavity in for hosting the second sealing gasket.

41 Conduit assembly according to claim 39, wherein the anchor part is provided with a fixator that at least temporarily fixates the anchor part against a distal side of plate-shaped construction element at a number of positions along a circumference of the through-opening.

42 Conduit assembly according to claim 41, wherein the fixator is self-clamping into through-opening.

43 Conduit assembly according to claim 41 or 42, wherein the fixator comprises at least one lip, wherein the lip is preferably hook-shaped so as allow the anchor part to hang on a rim of the through-opening

44 Conduit assembly according to any one of the claims 41-43, wherein the fixator comprises adhesive tape or a glue.