

WELD RING GASKETS.

DESCRIPTION

Weld ring gaskets are commonly used in areas where dangerous media is conveyed and/or continuous operation of the plant has to be ensured. A permanent and gas tight connection is established by welding the membrane or weld ring halves. This ensures the required high operational safety and continuity, while it is still possible to release the flange connection by undoing the welding seam.

Weld ring gaskets consist of two identical ring halves which have been machined with greatest precision, were welded to the flange surface and then welded together after positioning the flange halves.

IDT-weld-ring-gaskets are manufactured following DIN 2695: 2002 for DIN- and ANSI/ASME-flanges [SW01, SW10] and according to company standards [SW19, SW20, SW29]. The thickness of the welded rings is $2 \times 15 = 30.0\text{mm}$ for the designs SW10 and SW20, which allows for the welding of the ring halves without a special flange. The SW19 profile provides an additional auxiliary gasket. Prior to installation, the flange surfaces need to be checked for sufficient space.

Weld ring gaskets with additional auxiliary gasket are used when:

- The pressure test is done without welding only with the auxiliary gasket
- The flange connection is opened several times during start up
- Welding is only carried out if the auxiliary gasket does not achieve tightness

The use of weld ring gaskets with hollow lips is recommended [SW20, SW29] for the connection of components with different heat expansion properties. The advantage is in the greater movement absorption and is therefore commonly used for different radial expansion ratios of the components.

PROPERTIES

- High tightness, considered technically tight
- High operational safety
- Connection can be detached if necessary
- Complies with TA Luft 2002 [VDI 2440/2200] leakage requirements
- Good handling

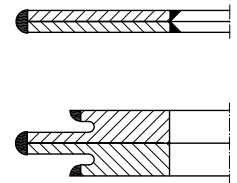
APPLICATIONS

- For pipeline and device construction
- For high internal pressures and/or high temperatures
- For vacuum
- For applications in which the operation has to be ensured continuously
- For critical media

PRODUCT RANGE & DESIGNS

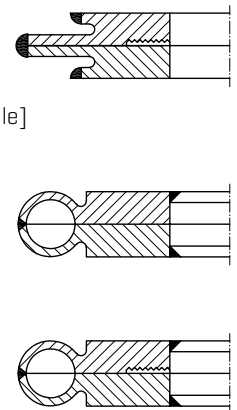
Designs following DIN 2695:2002

- SW01
membrane weld ring gasket
- SW10
Weld ring gasket



Design according to company standard [See additional data sheets]

- SW 19
weld ring gasket
with auxiliary gasket
[pictured: Kammprofile serrated profile]
- SW20
weld ring gasket
with hollow lip
- SW29
weld ring gasket
with auxiliary gasket
[pictured: Kammprofile serrated profile]



Additionally: [IDT Profile Overview | SW Series](#)

MATERIALS

Welding ring gaskets are commonly made from the same or similar material as the pipe or flange material.

SHORT NAME	MATERIAL NUMBER
P235GH	1.0305
P265GH	1.0425
16Mo3	1.5415
13CrMo4-5	1.7335
10CrMo9-10	1.7380
X6CrNiTi18-10	1.4541

Additional materials upon request

