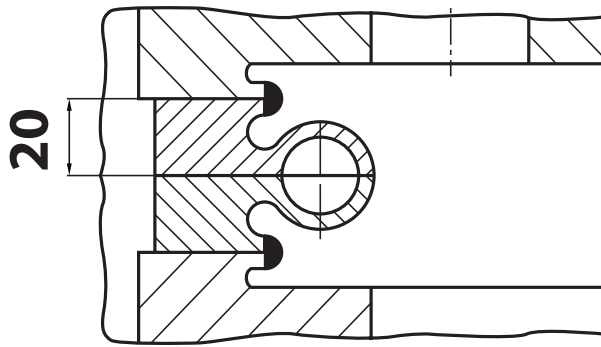


## others metallic gasket W04 - welded membrane

## gasket spec



### description

the profile W04 is like standard welded outside, but can be inside two, but not together. Very high compensation of differential expansion is there max.  $\Delta r \approx 5\text{mm}$ , this is depending on the thickness of hollow lip. this connection is easy for dismantling with a 2 mm cut off disc. this gasket can be rewelded up to for times. they are preferable installed to seal heat exchanger bonnet flanges and tube plates, where different radial movement occurs.

the welded membranes are mainly used for any applications where is recommended absolutely gas tight connection. underlying reasons for these recommendations are during handling with hazardous materials or the need for a shutdown free operation. the limited opportunity for disassembling means in this case, that the bolts have to be removed and the weld seam has to be cut besides. the gasket can be reused and re-welded up to five times depending on gasket type.

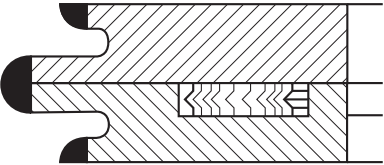
the gasket material are common the same or the similar to the pipe or flange material. weld ring gaskets have to be use in a pairs. the one part is called a welded joint. the welded joint is welded inside or outside on the flange. other weld is between two welded joints in the pair. all weld ring gasket can be with other additionally auxiliary gaskets. this may be advantageous for several reasons. first one is hydraulic pressure drop can be performed using auxiliary gasket before final welding. second one the testing and start up can be accomplished utilizing an auxiliary gasket, which allows repeated dismantling. third one is that the additional gasket may be the primary operational gasket. the weld ring would only be welded in the event of gasket failure.

for welded membranes without the additional gasket, is necessary so as after assembling was connection without any gap. some welded ring has hollow lips, which offer improved stress conditions in the seal weld. the use of welded ring with hollow lips is recommended for connection where very different thermal expansion coefficients are. the position of welds has influence on the function. when the weld is inside, it prevents crevice corrosion between the ring and the flange. the outside weld is better for possible repair without dismantling.

### possibilities of auxiliary gasket

mark	describe	figure
C	one gasket half is designed with a convex sealing surface.	
G	one gasket half is designed with a radial grooved sealing surface. layers can be from graphite or PTFE.	
GF	profile has male and female designs. the female part has grooved sealing surface. layers can be from graphite or PTFE.	



mark	describe	figure
GS	this is designed with groove for spiral wound gasket.	
GC	this is designed with groove for cam profile.	