

# Rubber-steel gasket (G-ST)

(IDT Style: GS01)



The gasket comprises a rubber convex-shaped body with an inner steel ring at the centre. The rubber jacketing is firmly vulcanized to the steel insert to provide a stable connection which will withstand high stress loads. The steel insert also increase safe blow-out and stability of the sealing system. The crowned form generates partial increase in the surface contact pressure. The gasket requires low bolting force/surface contact pressure and can be used in low-load design flanges with low bending strength (even plastic flanges).

## Construction



Dimensions as per DIN EN 1514-1  
DIN EN 12560-1

Other standard dimensions and special-purpose dimensions on request



## Materials

NBR; EPDM; CSM; FPM; NR (other materials on request)

## Operating limits

■ Operating pressure :	max. 25 bar
■ Operating temperature :	
NBR	-25 °C to 70 °C
EPDM	-30 °C to 120 °C
CSM	-20 °C to 120 °C
FPM	-20 °C to 200 °C

## Gasket characteristics DIN 28090

$\sigma_{VU}$ / NBR; EPDM; FPM; NR :	2 N/mm <sup>2</sup>
$\sigma_{VO 20^\circ C}$ / NBR; EPDM; NR :	15 N/mm <sup>2</sup>
$\sigma_{VO 20^\circ C}$ / FPM :	9 N/mm <sup>2</sup>
$\sigma_{BO 150^\circ C}$ / FPM :	5 N/mm <sup>2</sup>

## Approvals

- DVGW (NBR) <sup>1)</sup>
- FDA (EPDM/NBR)
- KTW (NBR/EPDM) <sup>2)</sup>
- TA-Luft 2002 (VDI 2440/2200) (NBR/EPDM/FPM) <sup>3)</sup>

1) DVGW: German Technical and Scientific Association for Gas and Water  
 2) KTW: Federal German Ministry of Health recommendations for maximum levels of plastics in drinking water  
 3) TA-Luft: German Technical Instructions on Air Quality Control