






## ARF Ring

### Pure graphite ring

#### Characteristics

- High cross section density
- Self lubrication and limited wear
- Dry running capability
- Coefficient of thermal expansion similar to steel
- Maintenance free and elastic, also under variable pressure
- Non ageing, high chemical resistance
- Attention! Precise tolerances and surfaces of application are requested

#### Operating range

			
p [bar]	-	-	800
v [m/s]	-	-	
t °C	-200 ... +550		
pH	0 - 14		
g/cm <sup>3</sup>	0.00		

Temperature in steam  
Density 1.40 up to 1.80 g/cm<sup>3</sup>

#### Main application

- Fittings
- Pumps (high temperature)
- Covers
- Valves

#### Suitable for

- Valves and fittings of all Industries
- Despite ARF rings are mainly designed for valves it also can be used in pumps at higher shaft speeds due to its high heat conductivity.
- As this is a precision sealing element Stuffingbox needs to be in precise alignment and perfect surface condition.

#### Variant

- Graphite in Purity 98 %
- Graphite in Purity 99,85 %
- expanded graphite APX 2 foil with integrated oxidation protection
- VDI 2440 / TA Luft with a leakage rate of  $5.7 \cdot 10^{-3}$  mbar · l/(s·m) 300 °C
- Rings with integrated reinforcement or endcaps made from AISI 316



#### Approvals

- Oxygen BAM 200 °C/250 bar
- DVGW and KTW

#### Form of delivery

- Rings - endless, with cut into half-shells or with skive cut TA300 variant
- Rings with or without metal reinforcement
- Pressure seals in any kind of geometry
- Tape in 10,15, 20, 25 mm width, corrugated  
#0.38 mm thick mit density 1.1  
#0.5 or 1.0 mm thick with self adhesive and density 1.0

All technical information and advice is based on our experience and will be given most conscientiously but without any liability.

Indication and figures are for guidance only and need to be examined by the user. All sizes are subject to manufacturing tolerances. We reserve the right to modify specifications at any time.

Please note that the technical values cannot be used all at the same time in their maximum values.