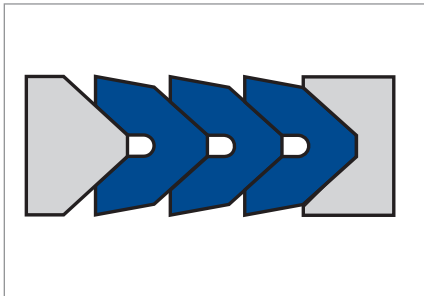


## PACKING RING TFW MADE OF PTFE



Merkel Packing Ring TFW made of PTFE

### PRODUCT DESCRIPTION

V-shape sealing ring made of PTFE for making up packings, comprising:

- 1 saddle ring TFS
- 3 to 5 angled rings TFW
- 1 mating ring TFG.

Note:

Only TFW rings are available from stock. Complete packings are only available on request.

### PRODUCT ADVANTAGES

Packing rings TFW feature very good chemical and thermal resistance, low friction and favourable breakaway forces even after long periods of down-time.

### APPLICATION

Packing rings TFW are suitable for axially operated valve spindles, rods and plungers, as well as slowly turning shafts.

### MATERIAL

Saddle ring	Angled ring	Mating ring
PTFE on request Metal (customer solution)	PTFE 15/F52902 (graphite-filled PTFE)	PTFE on request Metal (customer solution)

→ Technical Manual.

### OPERATING CONDITIONS

Pressure	Temperature
31,5 MPa	-200 ... +220 °C

Running speed	on axial movement	on rotary movement
Continuous operation	approx. 0,5 m/s	approx. 0,2 m/s
Intermittent operation	approx. 1,5 m/s	approx. 0,4 m/s

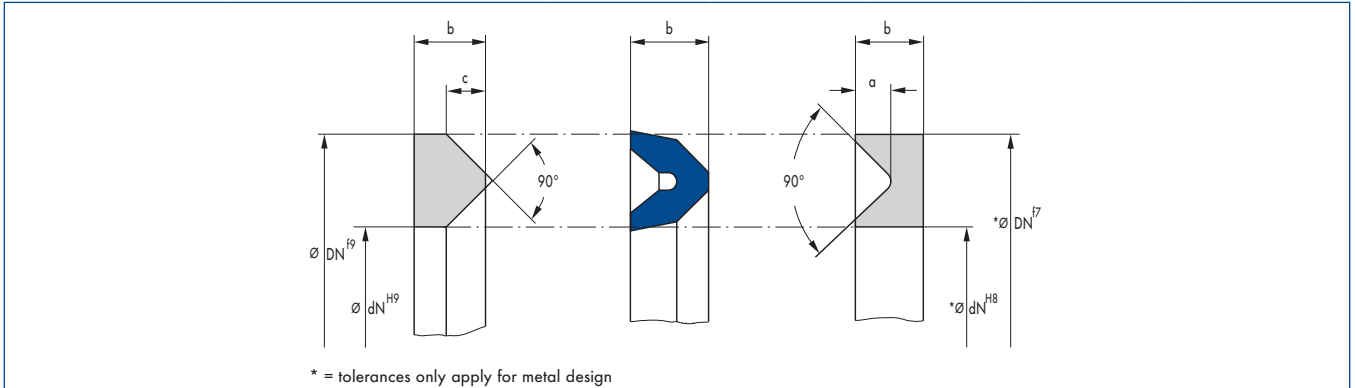
### FITTING & INSTALLATION

With fluctuating operating temperatures or when sealing a rotating shaft, the packing is to be pre-loaded with 1,5 to 2 N/mm<sup>2</sup> on the pressure side using a spring. If the spring must be installed on the non-pressurised side then its pre-load is to be matched to the maximum pressure that occurs. If metal saddle and mating rings are manufactured by the customer, the dimensions are to be taken from the table. The number of PTFE angled rings depends on the pressure of the medium.

We recommend:

p ≤ 3 MPa	p > 3 ... 10 MPa	p > 10 MPa
3 TFW	4 TFW	5 TFW

**LIST OF DIMENSIONS**



Ø Difference DN-dN	Mating ring TFG <sup>1)</sup>		Angled ring TFW	Saddle ring TFS <sup>1)</sup>		Packing height	
	b	a	b	b	c	b <sub>1</sub> <sup>2)</sup>	Δh <sup>3)</sup>
8	4,0	1,4	3,8	4,0	1,7	15,3	2,9
10	4,5	1,8	4,8	4,5	2,1	17,8	3,6
12	5,0	2,1	5,8	5,0	2,5	20,3	4,2
15	6,0	2,6	7,0	6,0	3,1	23,5	4,7
20	7,5	3,4	9,3	7,5	4,3	29,6	6,0
25	9,0	4,5	11,2	9,0	5,4	33,7	6,8
30	10,5	5,5	13,0	10,5	6,3	38,4	7,7

<sup>1)</sup> TFS/TFG available on request

<sup>2)</sup> Height with 3 TFW

<sup>3)</sup> Height increase for each additional angled ring TFW