## Flushing ring For flange-connection diaphragm seals Model 910.27

WIKA data sheet AC 91.05

### **Applications**

- For flange-connection diaphragm seals with flush diaphragm or cell-type design
- Flushing of process lines to avoid deposits or clogging
- Cleaning deposits off diaphragms
- Measuring location calibration after separation from the process

### **Special features**

- Wide choice of special materials
- Common standards, nominal widths and flushing connections available
- Flushing bores with plug screws
- Flushing ring with mounted valves



Fig. top: Flushing ring, model 910.27 Fig. bottom: Flushing ring, model 910.27 with mounted valves

### **Description**

The model 910.27 flushing ring is mounted between the diaphragm seal (either flange-type or cell-type design) and the process flange using standardised sealings.

The flushing ring is available with one or two flushing bores located at the side. Deposits, especially those on the diaphragm, can be removed by flushing and cleaning in order to avoid any impairment of the measurement.

Flushing rings with mounted valves extend diaphragm seal systems so that maintenance can be carried out with them still fitted.

#### Measuring location calibration without dismounting

By using the flushing ring with mounted valves and an upstream shut-off valve, calibration can be performed on-site. In its product portfolio, WIKA has the calibration equipment needed for this e.g. precision digital pressure gauge, model CPG1500 and also the required pressure generation e.g. hand pump, model CPP30 or model CPP1000-H.



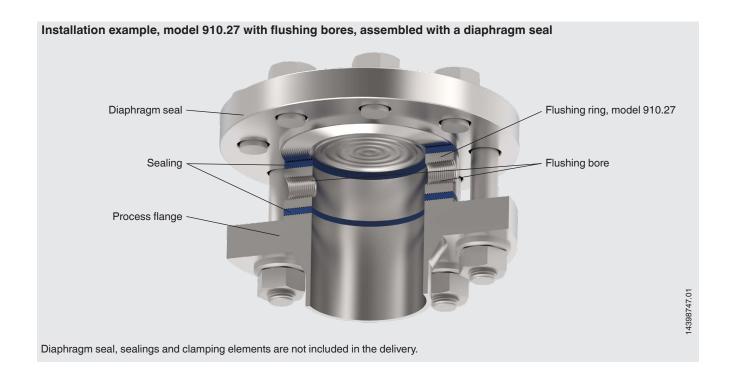
**Smart in sensing** 

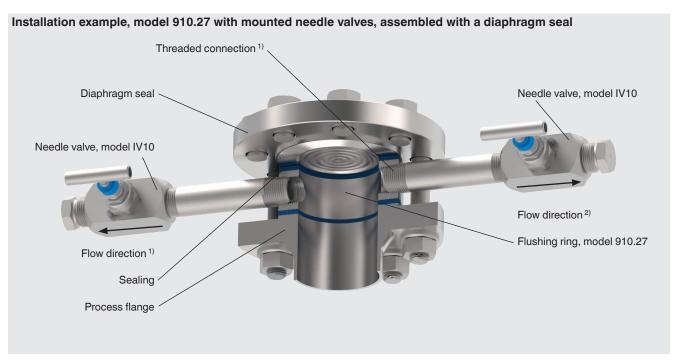
# **Specifications**

Model 910.27				
Process connection				
Following DIN EN 1092-1	DN 40 DN 50 DN 80 DN 100 DN 125	<ul> <li>Form A/B1 1)</li> <li>Form B2</li> <li>Form C (tongue)</li> <li>Form D (groove)</li> <li>Form E (spigot)</li> <li>Form F (recess)</li> </ul>		
Following ASME B16.5	1 ½" 2" 2 ½" 3" 4" 5"	RF 125 250 AA RFSF Flat face Small tongue Small male face Small groove Small female face Large tongue Large male face Large groove Large female face RJF groove		
Flushing bore				
Version	<ul><li>On one side</li><li>On both sides</li></ul>			
Female thread	<ul> <li>½ NPT</li> <li>¼ NPT</li> <li>½ NPT</li> <li>¾ NPT</li> <li>G ½</li> <li>G ¼</li> <li>G ½</li> <li>others on request</li> </ul>			
Male thread (with adapter)	<ul> <li>½ NPT</li> <li>¼ NPT</li> <li>G ½</li> <li>G ¼</li> <li>others on request</li> </ul>			
Plug screw	<ul><li>Without</li><li>With plug screw matching the</li></ul>			
Valve mounting	<ul><li>Without</li><li>On one side</li><li>On both sides</li></ul>	■ Without ■ On one side		
Valve	Model IV11, multiport valve	■ Model IV11, multiport valve; see data sheet AC 09.22		
Materials	<ul> <li>Stainless steels 1.4571 (31)</li> <li>Hastelloy C22 (2.4602), C2</li> <li>Monel 400 (2.4360)</li> <li>Nickel 200 (2.4060, 2.4066)</li> <li>Titanium grade 2 (3.7035)</li> </ul>			

<sup>1)</sup> For flushing rings model 910.27 the sealing faces of forms A and B1 are technically and constructively identical.

Other process connections and materials on request





- With tapered threaded connection, the alignment of the valves can differ slightly.
   Needle valves are designed for a preferred flow direction (unidirectional). For optimum shut-off of the medium, the valves are therefore mounted as shown.

## **Approvals**

### **Optional approvals**

Logo	Description	Region
101	EAC	Eurasian Economic
EAE	Pressure equipment directive	Community

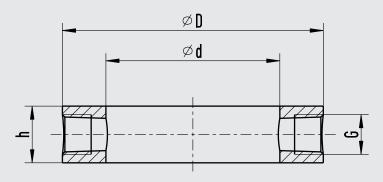
# **Certificates (option)**

Certificates	
Certificates	<ul> <li>2.2 test report per EN 10204</li> <li>3.1 inspection certificate per EN 10204</li> </ul>

<sup>→</sup> Approvals and certificates, see website

## Dimensions in mm [in]

## Flushing ring, model 910.27 with flushing bore(s)



The "G" thread can be delivered on one side or both sides of the flushing ring. Available threads, see page 2

### Flange connection following DIN EN 1092-1

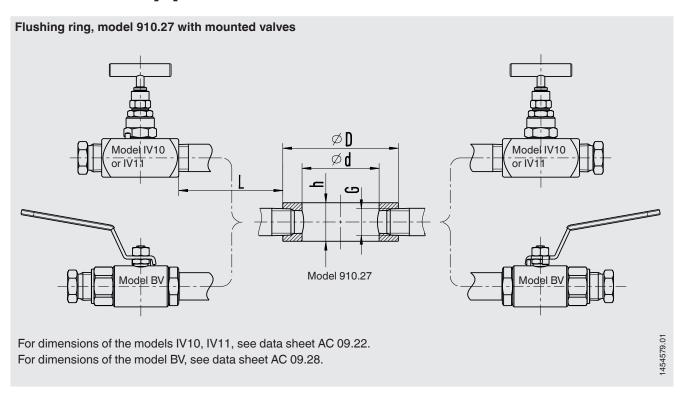
DN	PN in bar	Dimensions in	mm [in]	Weight in kg [lbs]	
		D	d	h	
25	10 100	68 [6.667]	25 [0.984]	30 [1,181]	0.7 [1.54]
40	10 100	88 [3.464]	49 [1.929]	30 [1,181]	0.9 [1.98]
50	10 100	102 [4.016]	62 [2.441]	30 [1,181]	1.10 [2.43]
80	10 100	138 [5.433]	92 [3.622]	30 [1,181]	1.90 [4.19]
100	10 100	162 [6.378]	92 [3.622]	30 [1,181]	3.15 [6.95]
125	10 100	188 [7.402]	126 [4.961]	30 [1,181]	3.50 [7.72]

#### Flange connection per ASME B16.5

DN	Class	Dimensions in	mm [in]	Weight in kg [lbs]	
		D	d	h	
1"	150 600	51 [2.007]	25 [0.984]	30 [1,181]	0.3 [0.66]
1 1/2"	150 600	73 [2.874]	40 [1.574]	30 [1,181]	0.6 [1.32]
2"	150 600	92 [3.622]	62 [2.441]	30 [1,181]	0.60 [1.323]
3"	150 600	127 [5.000]	92 [3.622]	30 [1,181]	1.05 [2.315]
4"	150 600	157 [6.181]	92 [3.622]	30 [1,181]	2.85 [6.283]
5"	150 600	185.5 [7.303]	126 [4.961]	30 [1,181]	3.30 [7.275]

Further dimensions and higher nominal pressures on request

## Dimensions in mm[in]



### Flange connection following DIN EN 1092-1

DN	PN in bar	Dimensions in	Dimensions in mm [in]				
		D	d	h	L		
50	16 100	102 [4.016]	62 [2.441]	30 [1.181]	■ 75 [2.953] ■ 100 [3.937]		
80	16 100	138 [5.433]	92 [3.622]	30 [1.181]	■ 75 [2.953] ■ 100 [3.937]		
100	16 100	162 [6.378]	92 [3.622]	30 [1.181]	■ 75 [2.953] ■ 100 [3.937]		
125	16 100	188 [7.402]	126 [4.961]	30 [1.181]	■ 75 [2.953] ■ 100 [3.937]		

### Flange connection per ASME B16.5

DN	Class	Dimensions in mm [in]				
		D	d	h	L	
2"	150 600	92 [3.622]	62 [2.441]	30 [1.181]	■ 75 [2.953] ■ 100 [3.937]	
3"	150 600	127 [5.000]	92 [3.622]	30 [1.181]	■ 75 [2.953] ■ 100 [3.937]	
4"	150 600	157 [6.181]	92 [3.622]	30 [1.181]	■ 75 [2.953] ■ 100 [3.937]	
5"	150 600	185.5 [7.303]	126 [4.961]	30 [1.181]	■ 75 [2.953] ■ 100 [3.937]	

Further dimensions and higher nominal pressures on request

Ordering information	
Model / Process connection (standard, nominal width, nominal pressure rating) / Sealing face form / Material / Flushin Valve mounting / Plug screw / Options	ng bore /

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We reserve the right to make modifications to the specifications and materials.

In case of a different interpretation of the translated and the English data sheet, the English wording shall prevail.

WIKA data sheet AC 91.05 · 09/2024

Page 7 of 7