



# Chemical seals (hygienic)

Connection as per DIN 11851 и SMS 681 • Type:  
BS-...-DIN (-SMS)

## Destination

The device is intended for appliance in food-processing and pharmaceutical industries, where physical and chemical cleanness of measured operating medium is a dominating factor. The given seals prevent penetration of operating medium into an instrument.

## Construction

The seal has a non-separable construction with external location of separating element.

## Special features

Hygienic seals are supplied only ready-mounted with pressure gauges or sensors of «WIKA GmbH & Co» Corporation, (Germany), made of stainless steel.

## Standard execution

### Separating element

Membrane  
Material: food rubber

### Body

Stainless steel

### Process connection

As per DIN 11851 or SMS 681

### Filling liquid for seal

Glycerin



## Optionally

### Separating element

Membrane  
Material: stainless steel

### Accessories <sup>1)</sup>

Capillary connection, connection through a cooler, counterparts, checking device for seals

## FUNCTIONAL CHARACTERISTICS

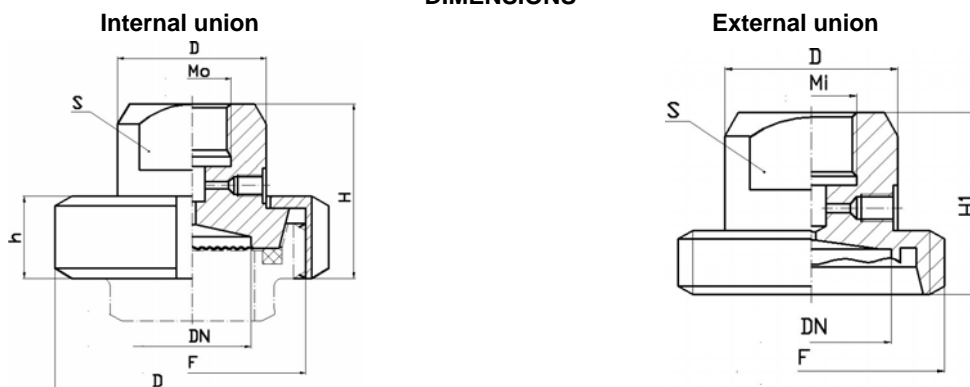
Parameter	Value
Maximal working pressure, bar	40
Working temperature range, °C	-10...+100
Accuracy class of the unit «pressure gauge-seal», %	1,0
Type of the used pressure gauge made by «WIKA GmbH & Co.»	232.50, 233.50 или 213.53
Body diameter of the pressure gauge, mm	63, 100, 160
Pressure gauge's material	Stainless steel
Membrane's material	Food rubber or stainless steel
Seal's body material	Stainless steel
Standard of the seal's outlet connection	<b>DIN 11851, SMS 681</b>

<sup>1)</sup> for more information see the section "Accessories".

# Chemical seals

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### DIMENSIONS



Nominal diameter, DN	Maximal working pressure, bar	H, mm	h, mm	D, mm	d, mm	H1, mm	S1, mm	Thread F (DIN 405)	Standard
25 MM	40	44	21	63	34	37	27	Rd 52 x 1/6"	DIN 11851
32 MM	40	46	21	70	40	42	32	Rd 58 x 1/6"	
40 MM	40	46	21	78	48	42	41	Rd 65 x 1/6"	
50 MM	25	47	22	92	60	42	41	Rd 78 x 1/6"	
3/2"	40	50	25	74	48	43	32	Rd 60 x 1/6"	SMS 681
2"	40	50	26	84	60	43	41	Rd 70 x 1/6"	

### SYSTEM OF ORDER'S DESIGNATION

Type of pressure gauge									
232.50	Standard, made of stainless steel								
233.50	With glycerin (at pulsations, vibrations etc)								
213.53	Economical variant with glycerin filling								
	Pressure gauge diameter, mm								
	063	Arrangement of pressure gauge connection							
	100								
	160	P	Radially downwards						
		T	Face behind the body						
			Range of pressure gauge (low/up), bar						
			(-1/0)						
			(0/1)						
			(0/10)						
			и т.д.						
				Type of the seal					
				BS	Hygienic				
					Membrane material				
				E	Food rubber				
				1	Stainless steel				
					Nominal diameter, mm	Outer diameter of the thread F, mm	Nut diameter D, mm		
					25	52	63		
					32	58	70		
					40	65	78		
					50	78	92		
					3/2"	60	74		
					2"	70	84		
					Type of the connection				
					0	Internal connection			
					1	External connection			
						Standard of the connection			
						DIN 11851			
						SMS 681			
<b>232.50.</b>	<b>100</b>	<b>-P</b>	<b>(0/16)-</b>	<b>BS-</b>	<b>1</b>	<b>-32</b>	<b>-0</b>	<b>-DIN</b>	

Samples of designation: 232.50.100-P(0/10)-BS-1-40-0-DIN,  
233.50.063-T(-1/0)-BS-E-2"-1-SMS



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