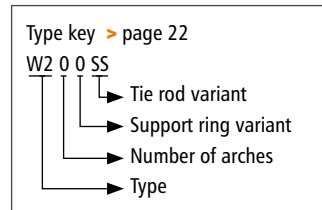


**W200SS W300SS**  $\varnothing$  25 - 6,000 mm  
 $\varnothing$  up to 4,000 x 4,000 mm  
 $\varnothing$  up to 6,000 x 3,000 mm



> **Type W200SS**  
without steam barrier

> **Type W300SS**  
with steam barrier



## Penetration seal membrane

**Design:** Straight or folded penetration seal membranes with excellent all-directional movement capability, available in slip-on or flanged designs, standard made from extremely flexible thin silicone materials, and with multi-part backing flanges or fixing clamps. Type W300SS/FS for cold water lines optional with steam diffusion barrier. Available customised round or rectangular styles, also offset designs for pipe misalignment and split wrap designs available for field installation around existing penetrating pipe applications.

**Dimensions:**  $\varnothing$  25 to 6,000 mm  
 $\varnothing$  up to 4,000 x 4,000 mm or 6,000 x 3,000 mm  
 Custom diameters/rectangular cross-sections possible

**Length:** Standard  $L_e = 60$  mm (> page 314–315)  
 Custom length on request

**Pressure:** Up to  $\pm 20$  mbar

**Movement:** For axial, lateral and angular movements



**Application:**  
**Power plants, plant construction, turbine houses, e.g. for building / ground settlements for pipe or vessel penetrations, noise absorption, vibration, pipe misalignment, thermal movements, seismic displacements or as airtight seal or splash protection of pipe penetrations, seals for district heating pipelines**

Suitability verifications for nuclear power plant



Request assembly instructions at:  
[www.ditec-adam.de/en/contact](http://www.ditec-adam.de/en/contact)

## Bellows elastomers

Elastomers			Carrier
up to 200 °C:	Silicon (Q)	Air, water, saltwater atmosphere	without
	Silicon special compound	Nuclear applications	
	FPM	Tank pit seals	Aramid
Other elastomers on request			

## Clamps

- Design:** Screw thread belt or small clamps
- Width:** Screw thread belt: 1/2"  
Small clamp: depending on Ø: 9–12 mm
- Materials:** Screw thread belt with threaded screw lug: 1.4310  
Small clamp, belt and housing: 1.4016 (Screw steel galvanised)

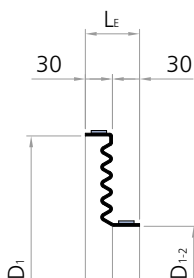
## Backing flanges

- Design:** Multi-part clamping flange with clearance holes
- Flange norms:** According to specification
- Materials:** Carbon steel, stainless steel
- Coating:** Primed, hot-dip galvanised, special paint

## Installation variants

TYPE		Wall pipe fixing	Medium pipe fixing	Pressure	Dimensions
W200SS W300SS		Sleeve	Sleeve	Low	Wall pipe / duct up to Ø 6,000 mm, Ø 4,000 x 4,000 mm or Ø 6,000 x 3,000 mm
W200FS W300FS		Flange	Sleeve	Low	Medium pipe / duct up to Ø 6,000 mm, Ø 4,000 x 4,000 mm or Ø 6,000 x 3,000 mm

Cross section W200SS





## W200SS

> without steam barrier

Potential combinations		Movement		
Wall pipe ∅ mm	Medium pipe ∅ mm			
		mm	mm	± mm
50	10	15	15	13
	15	14	14	12
	20	12	12	10
	25	9	9	8
	32	6	6	5
65	15	19	19	16
	20	17	17	15
	25	15	15	13
	32	12	12	10
	40	10	10	8
80	20	22	22	19
	25	19	19	17
	32	16	16	14
	40	14	14	12
	50	10	10	9
100	25	28	28	24
	32	25	25	22
	40	23	23	20
	50	19	19	16
	65	13	13	11
125	32	34	34	29
	40	32	32	27
	50	28	28	24
	65	22	22	19
	80	18	18	15
150	40	42	42	36
	50	38	38	32
	65	32	32	28
	80	28	28	24
	100	19	19	16
200	65	50	50	43
	80	46	46	39
	100	37	37	31
	125	28	28	24
	150	18	18	15
250	80	64	64	55
	100	56	56	48
	125	47	47	40
	150	37	37	31
	200	19	19	16
300	100	73	73	63
	125	64	64	55
	150	54	54	47
	200	37	37	31
	250	18	18	15
350	125	76	76	65
	150	66	66	56
	200	48	48	41
	250	29	29	25
	300	11	11	10
400	150	83	83	71
	200	66	66	56
	250	47	47	40
	300	29	29	25
	350	18	18	15

Potential combinations		Movement		
Wall pipe ∅ mm	Medium pipe ∅ mm			
		mm	mm	± mm
450	200	83	83	71
	250	64	64	55
	300	47	47	40
	350	36	36	30
	400	18	18	15
500	250	82	82	71
	300	64	64	55
	350	53	53	46
	400	36	36	30
	450	18	18	15
550	300	82	82	70
	350	71	71	61
	400	53	53	46
	450	36	36	30
	500	18	18	15
600	350	89	89	76
	400	71	71	61
	450	53	53	46
	500	36	36	30
	550	18	18	15
650	400	89	89	76
	450	71	71	61
	500	53	53	46
	550	36	36	30
	600	18	18	15
700	450	89	89	76
	500	71	71	61
	550	53	53	46
	600	36	36	30
	650	18	18	15
750	500	89	89	76
	550	71	71	61
	600	53	53	46
	650	36	36	30
	700	18	18	15
800	400	142	142	122
	450	124	124	107
	500	107	107	91
	600	71	71	61
	700	36	36	30
900	450	160	160	137
	500	142	142	122
	600	107	107	91
	700	71	71	61
	800	36	36	30
1000	500	178	178	152
	600	142	142	122
	700	107	107	91
	800	71	71	61
	900	36	36	30

For wall pipes use nominal diameters if possible.  
For medium pipes, all diameters can be delivered.  
Other combinations possible.

Customised products available



# W300SS

> with steam barrier



Potential combinations		Movement		
Wall pipe ∅ mm	Medium pipe ∅ mm			
		mm	mm	±mm
50	10	5	5	3
	15	5	5	3
	20	4	4	3
	25	3	3	2
	32	2	2	1
65	15	7	7	4
	20	6	6	4
	25	5	5	3
	32	4	4	3
80	40	3	3	2
	20	8	8	5
	25	7	7	4
	32	6	6	3
100	40	5	5	3
	50	4	4	2
	25	10	10	6
	32	9	9	5
125	40	8	8	5
	50	7	7	4
	65	5	5	3
	32	12	12	7
150	40	11	11	7
	50	10	10	6
	65	8	8	5
	80	6	6	4
200	40	15	15	9
	50	14	14	8
	65	12	12	7
	80	10	10	6
250	100	7	7	4
	65	18	18	11
	80	16	16	10
	100	13	13	8
300	125	10	10	6
	150	6	6	4
	80	23	23	14
	100	20	20	12
350	125	17	17	10
	150	13	13	8
	200	7	7	4
	100	26	26	16
400	125	23	23	14
	150	19	19	12
	200	13	13	8
	250	6	6	4
400	125	27	27	16
	150	23	23	14
	200	17	17	10
	250	10	10	6
	300	4	4	2
400	150	30	30	18
	200	23	23	14
	250	17	17	10
	300	10	10	6
	350	6	6	4

Potential combinations		Movement		
Wall pipe ∅ mm	Medium pipe ∅ mm			
		mm	mm	±mm
450	200	30	30	18
	250	23	23	14
	300	17	17	10
	350	13	13	8
	400	6	6	4
500	250	29	29	18
	300	23	23	14
	350	19	19	11
	400	13	13	8
	450	6	6	4
550	300	29	29	18
	350	25	25	15
	400	19	19	11
	450	13	13	8
	500	6	6	4
600	350	32	32	19
	400	25	25	15
	450	19	19	11
	500	13	13	8
	550	6	6	4
650	400	32	32	19
	450	25	25	15
	500	19	19	11
	550	13	13	8
	600	6	6	4
700	450	32	32	19
	500	25	25	15
	550	19	19	11
	600	13	13	8
	650	6	6	4
750	500	32	32	19
	550	25	25	15
	600	19	19	11
	650	13	13	8
	700	6	6	4
800	500	32	32	19
	550	25	25	15
	600	19	19	11
	650	13	13	8
	700	6	6	4
900	400	51	51	30
	450	44	44	27
	500	38	38	23
	600	25	25	15
	700	13	13	8
1000	450	57	57	34
	500	51	51	30
	600	38	38	23
	700	25	25	15
	800	13	13	8

For wall pipes use nominal diameters if possible.  
For medium pipes, all diameters can be delivered.  
Other combinations possible.

Customised products available