

# Standard Size Dimension for Vacuum Bellows Diaphragms



STANDARD TYPE NS Material 1.4435 (AISI 316L)				STANDARD TYPE NS Material AM 350 (AISI 633)			
Nominal diameter		Inside diameter	Outside diameter	Nominal diameter		Inside diameter	Outside diameter
DN	Ø	ID	OD	DN	Ø	ID	OD
		6	13			6	13
		6.6	16			6.6	16
		8	16			8	16
DN	10	9	20	DN	10	9	20
		10	20			10	20
						11	24
		13	26			13	26
DN	16	16	31.5	DN	16	16	31.5
		19	37			19	37
		21	41			21	41
DN	25	25.4	44.45	DN	25	25.4	44.45
		26	46			26	46
		31	51			31	51
		31.7	50.8			31.7	50.8
		36	56			36	56
DN	40	39	59	DN	40	39	59
		46	62.5			46	62.5
		46	71			46	71
DN	50	51	76	DN	50	51	76
		60	88			60	88
DN	63	65	90	DN	63	65	90
		70.5	95			70.5	95
		75	100			75	100
		77	107			77	107
		83.5	108				
		90	120			90	120
DN	100	102	132	DN	100	102	132
		106.4	138.2				
						116	133.7
		127	157			127	157
DN	160	150	185	DN	160	150	185
		162.5	195			162.5	195
		170	200				
		180	215			180	215
DN	200	200	235	DN	200	200	235
DN	250	250	285	DN	250	250	285
		270	310			270	310
DN	320	320	360	DN	320	320	360

The data are valid under the following conditions:

Differential pressure  $\Delta p = 1 \text{ bar}$   
 Lifetime  $N_z = 10'000 \text{ Zyklen}$   
 Operating temperature  $OT = 20^\circ\text{C}$   
 Heating temperature  $HT = 80^\circ\text{C}$

Technical changes are reserved!

**Other sizes and dimensions, please contact Mewasa directly for specifics.**

WIDE TYPE BS Material 1.4435 (AISI 316L)				WIDE TYPE BS Material AM 350 (AISI 633)			
Shaft diameter	Inside diameter	Outside diameter		Shaft diameter	Inside diameter	Outside diameter	
W	Ø	ID	OD	W	Ø	ID	OD
8		9	31.5	8		9	31.5
20		21	49	20		21	49
35		36.8	72	35		36.8	72
40		41.5	81	40		41.5	81
45		47	88	45		47	88
50	2"	52	95	50	2"	52	95
55		56	102	55		56	102
		60	121.5				
70		72	115	70		72	115
75	3"	77.5	120	75	3"	77.5	120
80		82	125	80		82	125
90		90.5	135	90		90.5	135
		92	142				
100	4"	102.5	150	100	4"	102.5	150
105		107.5	155	105		107.5	155
130	5"	132.5	165	130	5"	132.5	165
150	6"	162.5	210	150	6"	162.5	210
275		280	329.4				
400		403	460.9				
500		506	564.3				

The data are valid under the following conditions:

Differential pressure  $\Delta p = 1 \text{ bar}$   
 Lifetime  $N_z = 10'000 \text{ Zyklen}$   
 Operating temperature  $OT = 20^\circ\text{C}$   
 Heating temperature  $HT = 80^\circ\text{C}$

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SMALL TYPE DS Material 1.4435 (AISI 316L)				SMALL TYPE DS Material AM 350 (AISI 633)			
Shaft diameter	Inside diameter	Outside diameter		Shaft diameter	Inside diameter	Outside diameter	
W	Ø	ID	OD	W	Ø	ID	OD
				13	1/2"	14	26.7
18	5/8"	19	31.7	18	5/8"	19	31.7
		19.05	29.7			19.05	29.7
20	3/4"	21.3	34	20	3/4"	21.3	34
22	7/8"	23.8	36.5	22	7/8"	23.8	36.5
24	7/8"	25.4	38.1	24	7/8"	25.4	38.1
25	1"	27	39.7	25	1"	27	39.7
28	1 1/8"	30.2	42.9	28	1 1/8"	30.2	42.9
30	1 1/8"	31.8	44.5	30	1 1/8"	31.8	44.5
		32.4	48.0				
32	1 1/4"	33.3	46	32	1 1/4"	33.3	46
33	1 1/4"	34.3	47	33	1 1/4"	34.3	47
35	1 3/8"	36.5	49.2	35	1 3/8"	36.5	49.2
38	1 1/2"	39.7	52.4	38	1 1/2"	39.7	52.4
40	1 5/8"	42.8	55.5	40	1 5/8"	42.8	55.5
45	1 3/4"	46	57	45	1 3/4"	46	57
45	1 3/4"	46	58.7	45	1 3/4"	46	58.7
48	1 7/8"	49.2	61.9	48	1 7/8"	49.2	61.9
50	2"	52.4	65.1	50	2"	52.4	65.1
53	2 1/8"	55	67	53	2 1/8"	55	67
55	2 1/4"	58.7	71.4	55	2 1/4"	58.7	71.4
60	2 3/8"	61.9	74.6	60	2 3/8"	61.9	74.6
63	2 1/2"	65.1	81	63	2 1/2"	65.1	81
65	2 5/8"	68.3	84.1	65	2 5/8"	68.3	84.1
70	2 3/4"	70.5	84.1	70	2 3/4"	70.5	84.1
75	2 7/8"	76.2	92.1	75	2 7/8"	76.2	92.1
80	3 1/8"	84	98.4	80	3 1/8"	84	98.4
85	3 3/8"	88.9	104.8	85	3 3/8"	88.9	104.8
90	3 1/2"	92.1	108	90	3 1/2"	92.1	108
95	3 3/4"	98.4	114.3	95	3 3/4"	98.4	114.3
100	3 7/8"	101.6	117.5	100	3 7/8"	101.6	117.5
105	4 1/8"	107.9	123.8	105	4 1/8"	107.9	123.8
110	4 1/4"	111.1	127	110	4 1/4"	111.1	127
120				120	4 3/4"	123	139
125	4 7/8"	127	143	125	4 7/8"	127	143

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