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STANDARD TYPE NS

Material 1.4435 (AISI 316L)

Nominal diameter		Inside diameter	Outside diameter	Standard wall thickness of membrane	Compressed length per convolution	Free length per convolution	Working stroke per convolution	Extended length per convolution	Effective area of differential pressure (cm^2)	Spring constant per convolution [N/mm]	Largest bending angle per convolution [°]	Smallest bending radius
DN	**Ø**	**ID**	**OD**	**t**	**lc**	**lf**	**z_0**	**le_0**	**EA**	**SRCz**	**Θ_0**	**R_0**
		6	**13**	0.08	0.35	0.55	0.25	0.60	0.7	130	1.10	24.7
		6.6	**16**	0.05	0.20	0.56	0.47	0.67	1.1	21	1.68	14.8
		8	**16**	0.08	0.35	0.60	0.40	0.75	1.2	80	1.43	22.0
DN	10	**9**	**20**	0.10	0.40	0.80	0.60	1.00	1.7	87	1.72	23.3
		10	**20**	0.10	0.40	0.85	0.60	1.00	1.8	79	1.72	23.3
		13	**26**	0.10	0.34	0.86	0.86	1.20	3.1	88	1.90	23.3
DN	16	**16**	**31.5**	0.13	0.43	1.18	1.21	1.64	4.6	50	2.20	26.9
		19	**37**	0.13	0.45	1.60	1.70	2.15	6.4	91	2.63	28.3
		21	**41**	0.13	0.48	1.83	1.80	2.28	7.8	54	2.52	31.4
DN	25	**26**	**46**	0.13	0.40	1.75	1.90	2.30	10.4	62	2.37	32.7
		31	**51**	0.13	0.50	2.20	1.90	2.40	13.5	39	2.13	38.9
		36	**56**	0.13	0.50	1.90	1.95	2.45	16.9	40	2.00	42.4
DN	40	**39**	**59**	0.13	0.44	2.19	2.00	2.44	19.1	41	1.94	42.5
		46	**62.5**	0.13	0.50	1.60	1.50	2.00	23.3	90	1.38	52.1
		46	**71**	0.13	0.50	2.50	2.30	2.80	27.3	44	1.86	50.9
DN	50	**51**	**76**	0.13	0.50	2.75	2.40	2.90	32.1	38	1.81	53.8
		60	**88**	0.15	0.51	2.50	2.80	3.31	43.5	65	1.82	60.0
DN	63	**65**	**90**	0.15	0.70	2.70	2.70	3.40	47.6	72	1.72	68.3
		70.5	**95**	0.15	0.75	2.50	2.65	3.40	54.2	81	1.60	74.4
		75	**100**	0.15	0.60	2.80	2.90	3.50	60.5	69	1.66	70.7
		77	**107**	0.15	0.74	2.60	2.86	3.60	67.1	50	1.53	81.2
		83.5	**108**	0.15	0.66	2.11	2.53	3.19	72.4	77	1.34	82.2
		90	**120**	0.15	0.65	2.87	2.80	3.45	87.2	55	1.34	87.9
DN	100	**102**	**132**	0.15	0.51	2.91	3.10	3.61	108.1	60	1.35	87.7
		127	**157**	0.20	0.75	2.96	3.20	3.95	159.0	130	1.17	115.3
		132.5	**165**	0.20	0.75	3.10	3.25	4.00	174.0	120	1.13	120.6
DN	160	**150**	**185**	0.20	0.75	3.40	3.40	4.15	221.2	112	1.05	133.3
		162.5	**195**	0.20	0.75	3.10	3.00	3.75	251.6	144	0.88	146.3
		170	**200**	0.20	0.75	3.00	3.20	3.95	269.0	140	0.92	146.9
		180	**215**	0.20	0.75	2.90	3.40	4.15	307.0	124	0.91	154.9
DN	200	**200**	**235**	0.20	0.75	3.30	3.40	4.15	372.3	120	0.83	169.3
DN	250	**250**	**285**	0.20	0.80	3.30	3.20	4.00	562.8	180	0.64	213.8
		270	**310**	0.20	0.75	3.50	3.70	4.45	661.6	140	0.68	217.8
DN	320	**320**	**360**	0.20	0.80	3.80	3.80	4.60	909.0	145	0.60	255.8
		335	**360**	0.20	1.00	2.30	1.90	2.90	948.0	450	0.30	370.0

Technical changes are reserved!

The data are valid under the following conditions:

Differential pressure **Δp = 1bar**

Lifetime **Nz = 10'000 Zyklen**

Operating temperatur **OT = Raumtemperatur 20°C**

Heating temperature **HT = 80°C**

Other sizes, materials and specifications are available on request.

For more informations please see enclosed pages or contact us.

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STANDARD TYPE NS

Material AM 350 (AISI 633)

Nominal diameter		Inside diameter	Outside diameter	Standard wall thickness of membrane	Compressed length per convolution	Free length per convolution	Working stroke per convolution	Extended length per convolution	Effective area of differential pressure (cm^2)	Spring constant per convolution [N/mm]	Largest bending angle per convolution [°]	Smallest bending radius
DN	**Ø**	**ID**	**OD**	**t**	**lc**	**lf**	**z_0**	**le_0**	**EA**	**SRCz**	**Θ_0**	**R_0**
		6	**13**	0.08	0.40	0.75	0.50	0.90	0.7	130	2.20	16.9
		6.6	**16**	0.05	0.20	0.56	0.47	0.67	1.1	21	1.68	14.8
		8	**16**	0.08	0.45	0.90	0.50	0.95	1.2	99	1.79	22.4
DN	10	**9**	**20**	0.08	0.40	1.05	1.30	1.70	1.7	59	3.72	16.2
		10	**20**	0.08	0.30	1.00	1.00	1.30	1.8	80	2.86	16.0
		11	**24**	0.08	0.40	1.40	1.60	2.00	2.5	40	3.82	18.0
		13	**26**	0.08	0.40	1.45	1.70	2.10	3.1	42	3.75	19.1
DN	16	**16**	**31.5**	0.10	0.34	1.52	1.72	2.06	4.6	37	3.13	22.0
		19	**37**	0.10	0.40	1.90	2.30	2.70	6.4	68	3.56	24.9
		21	**41**	0.10	0.40	2.24	2.50	2.90	7.8	36	3.49	27.1
DN	25	**25.4**	**44.45**	0.10	0.45	2.00	2.55	3.00	9.8	50	3.29	30.0
		26	**46**	0.10	0.50	2.10	2.90	3.40	10.4	49	3.61	30.9
		31	**51**	0.10	0.50	2.40	3.10	3.60	13.5	39	3.48	33.7
		36	**56**	0.10	0.50	2.40	3.20	3.70	16.9	49	3.27	36.8
DN	40	**39**	**59**	0.10	0.50	2.55	3.30	3.80	19.1	37	3.20	38.4
		46	**62.5**	0.10	0.40	2.00	2.70	3.10	23.3	77	2.48	40.5
		46	**71**	0.13	0.55	2.90	4.00	4.55	27.3	54	3.23	45.3
DN	50	**51**	**76**	0.13	0.60	2.95	3.18	3.78	32.1	41	2.40	52.3
		60	**88**	0.13	0.55	2.85	3.70	4.25	43.5	57	2.25	58.0
DN	63	**65**	**90**	0.13	0.75	2.72	3.90	4.65	47.6	63	2.48	62.3
		70.5	**95**	0.13	0.80	2.70	3.20	4.00	54.2	52	1.93	71.3
		75	**100**	0.13	0.60	2.60	4.10	4.70	60.5	50	2.35	64.6
		77	**107**	0.13	0.73	3.05	4.27	5.00	67.1	42	2.29	71.8
		90	**120**	0.13	0.76	3.30	3.74	4.50	87.2	43	1.79	84.4
DN	100	**102**	**132**	0.13	0.70	2.81	3.85	4.55	108.1	46	1.67	90.0
		127	**157**	0.15	0.75	3.40	4.20	4.95	159.0	94	1.53	106.5
		132.5	**165**	0.20	0.75	3.60	3.80	4.55	175	80	1.32	115.1
DN	160	**150**	**185**	0.15	0.75	3.60	4.40	5.15	221.2	166	1.36	124.0
		162.5	**195**	0.15	0.70	3.30	4.00	4.70	251.6	140	1.18	131.6
		180	**215**	0.15	0.70	3.85	4.40	5.10	307.2	142	1.17	141.7
DN	200	**200**	**235**	0.15	0.70	3.80	4.40	5.10	372.3	71	1.07	154.9
DN	250	**250**	**285**	0.15	0.70	3.80	4.40	5.10	562.8	78	0.88	187.8
		270	**310**	0.20	0.80	3.50	4.60	5.40	661.6	90	0.85	208.9
DN	320	**320**	**360**	0.20	0.80	4.20	4.80	5.60	909.0	95	0.76	240.0

Technical changes are reserved!

The data are valid under the following conditions:

Differential pressure	**Δp = 1bar**
Lifetime	**Nz = 10'000 Zyklen**
Operating temperatur	**OT = Raumtemperatur 20°C**
Heating temperature	**HT = 80°C**

Other sizes, materials and specifications are available on request.

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WIDE TYPE BS — Material 1.4435 (AISI 316L)

Shaft diameter	Inside diameter	Outside diameter	Standard wall thickness of membrane	Compressed length per convolution	Free length per convolution	Working stroke per convolution	Extended length per convolution	Effective area of differential pressure (cm^2)	Spring constant per convolution [N/mm]	Largest bending angle per convolution [°]	Smallest bending radius
W	**Ø**	**ID**	**OD**	**t**	**lc**	**lf**	**z_0**	**le_0**	**EA**	**SRCz**	**Θ_0**	**R_0**
8	1/4"	**9**	**31.5**	0.13	0.48	1.90	1.40	1.88	3.60	52	2.55	26.6
20	3/4"	**21**	**49**	0.13	0.50	1.75	2.10	2.60	10.1	47	2.46	36.2
35	1 3/8"	**36.8**	**72**	0.15	0.60	3.05	3.00	3.60	24.1	72	2.39	50.4
40	1 5/8"	**41.5**	**81**	0.20	0.70	3.06	3.40	4.10	30.5	97	2.41	57.2
45	1 3/4"	**47**	**88**	0.20	0.70	3.95	3.40	4.10	36.9	86	2.21	62.1
50	2"	**52**	**95**	0.20	0.80	3.65	3.60	4.40	43.6	88	2.17	68.6
55	2 1/4"	**56**	**102**	0.20	0.75	4.20	3.70	4.45	50.4	81	2.08	71.7
70	2 3/4"	**72**	**115**	0.20	0.75	4.10	3.60	4.35	69.9	77	1.79	81.5
75	3"	**77.5**	**120**	0.20	0.75	3.60	3.40	4.15	77.8	88	1.62	86.5
80	3 1/8"	**82**	**125**	0.20	0.85	3.71	3.45	4.30	85.3	70	1.58	93.3
90	3 1/2"	**90.5**	**135**	0.20	0.83	3.80	3.77	4.60	101	73	1.60	97.2
91	3 1/2"	**92**	**142**	0.20	1.10	4.42	3.90	5.00	109.0	53	1.57	111.1
100	4"	**102.5**	**150**	0.20	1.25	4.70	4.35	5.60	127	60	1.66	118.1
105	4 1/8"	**107.5**	**155**	0.20	1.10	5.10	4.90	6.00	130.0	65	1.81	112.3
130	5"	**132.5**	**165**	0.20	0.75	3.10	3.25	4.00	174	120	1.13	120.6
150	6"	**162.5**	**210**	0.20	1.00	5.15	5.00	6.00	273.9	49	1.36	147.0
275	10"	**280**	**329.4**	0.20	1.28	4.60	5.00	6.28	731	55	0.87	249.0
400	15"	**403**	**460.9**	0.30	1.00	3.70	5.00	6.00	1468.0	200	0.62	322.6
500	19"	**506**	**564.3**	0.30	1.00	3.80	5.20	6.20	2251	250	0.53	390.7

WIDE TYPE BS — Material AM 350 (AISI 633)

Shaft diameter	Inside diameter	Outside diameter	Standard wall thickness of membrane	Compressed length per convolution	Free length per convolution	Working stroke per convolution	Extended length per convolution	Effective area of differential pressure (cm^2)	Spring constant per convolution [N/mm]	Largest bending angle per convolution [°]	Smallest bending radius
W	**Ø**	**ID**	**OD**	**t**	**lc**	**lf**	**z_0**	**le_0**	**EA**	**SRCz**	**Θ_0**	**R_0**
8	1/4"	**9**	**31.5**	0.13	0.45	1.90	2.10	2.55	3.6	51	3.82	22.5
20	3/4"	**21**	**49**	0.13	0.60	3.40	3.50	4.10	10.1	43	4.09	32.9
35	1 3/8"	**36.8**	**72**	0.13	0.60	3.90	3.80	4.40	24.1	68	3.02	47.4
40	1 5/8"	**41.5**	**81**	0.13	0.60	3.60	4.20	4.80	30.5	45	2.97	52.1
45	1 3/4"	**47**	**88**	0.13	0.60	4.70	4.40	5.00	36.9	75	2.86	56.0
50	2"	**52**	**95**	0.13	0.60	4.70	4.40	5.00	43.6	80	2.65	60.5
55	2 1/4"	**56**	**102**	0.15	0.68	5.10	5.10	5.78	50.4	75	2.86	64.6
70	2 3/4"	**72**	**115**	0.15	0.68	4.60	4.80	5.48	69.9	55	2.39	73.8
75	3"	**77.5**	**120**	0.15	0.68	4.30	4.00	4.68	77.8	72	1.91	80.4
80	3 1/8"	**82**	**125**	0.15	0.75	4.50	4.60	5.35	85.3	100	2.11	82.9
90	3 1/2"	**90.5**	**135**	0.15	0.75	4.20	4.10	4.85	101.0	80	1.74	92.2
100	4"	**102.5**	**150**	0.20	1.25	5.00	5.55	6.80	126.7	55	1.91	111.0
105	4 1/8"	**107.5**	**155**	0.20	1.20	5.50	5.00	6.20	136.8	65	1.85	114.7
130	5"	**132.5**	**165**	0.20	0.75	3.60	3.80	4.55	174.5	80	1.32	115.1
150	6"	**162.5**	**210**	0.20	1.10	5.15	7.00	8.10	273.9	85	1.91	138.0

Technical changes are reserved!

Datas under the following conditions:

Differential pressure Δp = 1bar, lifetime Nz = 10'000 cycles,

Operating temperature OT = 20°c, Heating temperature HT = 80°C

Other sizes, materials and specifications are available on request

For more informations please see enclosed pages or contact us

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SMALL TYPE DS

Material 1.4435 (AISI 316L)

Shaft diameter		Inside diameter	Outside diameter	Standard wall thickness of membrane	Compressed length per convolution	Free length per convolution	Working stroke per convolution	Extended length per convolution	Effective area of differential pressure (cm^2)	Spring constant per convolution [N/mm]	Largest bending angle per convolution [°]	Smallest bending radius
W	**Ø**	**ID**	**OD**	**t**	**lc**	**lf**	**z_0**	**le_0**	**EA**	**SRCz**	**Θ_0**	**R_0**
18	5/8“	**19**	**31.7**	0.13	0.43	1.00	1.00	1.43	5.2	175	1.81	29.5
20	3/4“	**21.3**	**34**	0.10	0.40	0.90	1.10	1.50	6.1	100	1.26	35.1
22	7/8“	**23.8**	**36.5**	0.10	0.40	0.90	0.75	1.15	7.2	116	1.18	37.7
24	7/8“	**25.4**	**38.1**	0.10	0.40	0.90	0.95	1.35	8.0	102	1.13	39.4
25	1“	**27**	**39.7**	0.10	0.40	1.15	1.15	1.55	8.8	98	1.15	39.7
28	1 1/8“	**30.2**	**42.9**	0.10	0.40	1.15	0.80	1.20	10.6	109	1.07	42.9
30	1 1/8“	**31.8**	**44.5**	0.10	0.40	1.15	0.85	1.25	11.5	96	1.09	43.2
32	1 1/4“	**33.3**	**46**	0.10	0.40	1.15	0.85	1.25	12.5	126	1.06	44.6
33	1 1/4“	**34.3**	**47**	0.10	0.40	1.15	0.85	1.25	13.1	91	1.04	45.6
35	1 3/8“	**36.5**	**49.2**	0.10	0.40	1.15	0.85	1.25	14.5	106	0.99	47.8
38	1 1/2“	**39.7**	**52.4**	0.10	0.40	1.15	0.90	1.30	16.8	137	0.98	49.5
40	1 5/8“	**42.8**	**55.5**	0.13	0.44	1.20	0.90	1.34	19.1	194	0.93	54.9
45	1 3/4“	**46**	**57**	0.13	0.44	1.10	0.80	1.24	20.9	197	0.80	59.9
45	1 3/4“	**46**	**58.7**	0.13	0.44	1.20	0.90	1.34	21.6	179	0.88	58.0
48	1 7/8“	**49.2**	**61.9**	0.13	0.44	1.20	0.90	1.34	24.3	198	0.83	61.2
50	2“	**52.4**	**65.1**	0.13	0.40	1.10	1.20	1.65	27.2	236	0.79	64.4
53	2 1/8“	**55**	**67**	0.13	0.44	1.10	0.80	1.24	29.3	232	0.68	70.4
55	2 1/4“	**58.7**	**71.4**	0.13	0.44	1.20	0.95	1.39	33.3	230	0.76	68.8
60	2 3/8“	**61.9**	**74.6**	0.13	0.44	1.20	0.95	1.39	36.7	321	0.73	71.9
63	2 1/2“	**65.1**	**81**	0.13	0.44	1.40	0.95	1.39	42.1	150	0.67	78.0
65	2 5/8“	**68.3**	**84.1**	0.13	0.44	1.40	1.00	1.44	45.8	226	0.68	79.1
70	2 3/4“	**70.5**	**84.1**	0.13	0.44	1.25	0.85	1.29	47.1	213	0.58	85.6
75	2 7/8“	**76.2**	**92.1**	0.13	0.44	1.60	1.20	1.64	55.8	142	0.75	79.8
80	3 1/8“	**84**	**98.4**	0.13	0.44	1.40	0.90	1.34	65.5	205	0.52	97.3
85	3 3/8“	**88.9**	**104.8**	0.13	0.44	1.50	1.10	1.54	73.8	174	0.60	94.3
90	3 1/2“	**92.1**	**108**	0.13	0.40	1.45	1.50	1.90	78.8	175	0.61	95.3
95	3 3/4“	**98.4**	**114.3**	0.13	0.44	1.45	1.10	1.54	89.0	197	0.55	102.9
100	3 7/8“	**101.6**	**117.5**	0.13	0.44	1.45	1.15	1.59	94.4	203	0.56	103.7
105	4 1/8“	**107.9**	**123.8**	0.13	0.44	1.45	1.15	1.59	105.6	216	0.53	109.3
110	4 1/4“	**111.1**	**127**	0.13	0.44	1.45	1.15	1.59	111.5	210	0.52	112.1
125	4 7/8“	**127**	**143**	0.13	0.44	1.45	1.15	1.59	143.3	246	0.46	126.2

Technical changes are reserved!

The data are valid under the following conditions:

Differential pressure **Δp = 1bar**

Lifetime **Nz = 10'000 Zyklen**

Operating temperatur **OT = Raumtemperatur 20°C**

Heating temperature **HT = 80°C**

Other sizes, materials and specifications are available on request.

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SMALL TYPE DS

Material AM 350 (AISI 633)

Shaft diameter		Inside diameter	Outside diameter	Standard wall thickness of membrane	Compressed length per convolution	Free length per convolution	Working stroke per convolution	Extended length per convolution	Effective area of differential pressure (cm^2)	Spring constant per convolution [N/mm]	Largest bending angle per convolution [°]	Smallest bending radius
W	**Ø**	**ID**	**OD**	**t**	**lc**	**lf**	**z_0**	**le_0**	**EA**	**SRCz**	**Θ_0**	**R_0**
13	1/2“	**14**	**26.7**	0.10	0.35	1.45	1.35	1.70	3.4	60	2.90	20.3
18	5/8“	**19**	**31.7**	0.10	0.40	1.40	1.20	1.60	5.2	120	2.17	26.4
20	3/4“	**21.3**	**34**	0.10	0.40	1.40	1.00	1.40	6.1	125	1.69	30.6
22	7/8“	**23.8**	**36.5**	0.10	0.40	1.40	1.00	1.40	7.2	129	1.57	32.9
24	7/8“	**25.4**	**38.1**	0.10	0.40	1.45	1.20	1.60	8.0	135	1.80	31.8
25	1“	**27**	**39.7**	0.10	0.40	1.45	1.10	1.50	8.8	140	1.59	34.3
28	1 1/8“	**30.2**	**42.9**	0.10	0.40	1.40	1.05	1.45	10.6	157	1.40	37.8
30	1 1/8“	**31.8**	**44.5**	0.10	0.40	1.45	1.20	1.60	11.5	113	1.55	37.1
32	1 1/4“	**33.3**	**46**	0.10	0.35	1.38	1.65	2.00	12.5	134	2.06	32.8
33	1 1/4“	**34.3**	**47**	0.10	0.40	1.50	1.20	1.60	13.1	107	1.46	39.2
35	1 3/8“	**36.5**	**49.2**	0.10	0.40	1.55	1.20	1.60	14.5	112	1.40	41.0
38	1 1/2“	**39.7**	**52.4**	0.10	0.40	1.40	1.20	1.60	16.8	164	1.31	43.7
40	1 5/8“	**42.8**	**55.5**	0.10	0.33	1.55	1.60	1.93	19.1	105	1.65	39.2
45	1 3/4“	**46**	**57**	0.10	0.40	1.30	1.10	1.50	20.9	146	1.11	49.2
45	1 3/4“	**46**	**58.7**	0.10	0.40	1.40	1.25	1.65	21.6	178	1.22	48.1
48	1 7/8“	**49.2**	**61.9**	0.10	0.40	1.40	1.25	1.65	24.3	192	1.16	50.8
50	2“	**52.4**	**65.1**	0.10	0.40	1.50	1.25	1.65	27.2	131	1.10	53.4
53	2 1/8“	**55**	**67**	0.10	0.40	1.40	1.20	1.60	29.3	167	1.03	55.8
55	2 1/4“	**58.7**	**71.4**	0.10	0.40	1.40	1.30	1.70	33.3	167	1.04	57.7
60	2 3/8“	**61.9**	**74.6**	0.13	0.44	1.40	1.30	1.74	36.7	371	1.00	62.5
63	2 1/2“	**65.1**	**81**	0.13	0.50	1.80	1.50	2.00	42.1	170	1.06	67.5
65	2 5/8“	**68.3**	**84.1**	0.13	0.44	1.45	1.30	1.74	45.8	266	0.89	70.5
70	2 3/4“	**70.5**	**84.1**	0.13	0.44	1.42	1.71	2.15	47.1	281	0.89	70.5
75	2 7/8“	**76.2**	**92.1**	0.13	0.44	1.95	1.55	1.99	55.8	171	0.96	72.2
80	3 1/8“	**84**	**98.4**	0.13	0.44	1.90	1.50	1.94	65.5	234	0.87	78.1
85	3 3/8“	**88.9**	**104.8**	0.13	0.44	1.70	1.40	1.84	73.8	205	0.77	85.3
90	3 1/2“	**92.1**	**108**	0.13	0.44	1.95	1.55	1.99	78.8	201	0.82	84.7
95	3 3/4“	**98.4**	**114.3**	0.13	0.44	1.85	1.50	1.94	89.0	219	0.75	90.7
100	3 7/8“	**101.6**	**117.5**	0.13	0.44	1.70	1.40	1.84	94.4	226	0.68	95.7
105	4 1/8“	**107.9**	**123.8**	0.13	0.43	1.68	1.97	2.40	105.6	261	0.91	88.9
110	4 1/4“	**111.1**	**127**	0.13	0.44	1.70	1.40	1.84	111.5	249	0.63	103.4
120	4 3/4“	**123**	**139**	0.15	0.51	1.80	1.30	1.81	134.9	424	0.54	124.0
125	4 7/8“	**127**	**143**	0.13	0.50	1.75	1.90	2.40	143.3	450	0.56	116.4
330	13 “	**335**	**360**	0.15	0.90	2.76	2.90	3.80	948.0	288	0.46	292.0

Technical changes are reserved!

The data are valid under the following conditions:

Differential pressure	**Δp = 1bar**
Lifetime	**Nz = 10'000 Zyklen**
Operating temperatur	**OT = Raumtemperatur 20°C**
Heating temperature	**HT = 80°C**

Other sizes, materials and specifications are available on request.
For more informations please see enclosed pages or contact us.

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