



Weyn-Lauwers N.V.

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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT WATER fig 902

SERIE 800 PN-25

Data sheet

Calculation: AD-Merkblatt A 2

Water flow capacity Kg/h 20 °C Overpressure 10 %

800		1/2 x 3/4 3/4 x 3/4	1/2 x 1	3/4 x 1 3/4 x 1 1/4	1 x 1 1 x 1 1/4	1 1/4 x 1 1/4	1 1/2 x 2	2 x 2
Diam (mm)		11,5	13	14	16	18	28	32
Área(mm ²)		104	133	154	201	254	616	804
Presión en bar g								
0,5		1.883	2.406	2.790	3.644	4.612	11.160	14.576
1		2.662	3.402	3.946	5.153	6.522	15.782	20.614
1,5		3.261	4.167	4.832	6.312	7.988	19.329	25.246
2		3.765	4.811	5.580	7.288	9.224	22.320	29.152
2,5		4.209	5.379	6.239	8.148	10.313	24.954	32.593
3		4.611	5.893	6.834	8.926	11.297	27.336	35.704
3,5		4.981	6.365	7.382	9.641	12.202	29.526	38.565
4		5.325	6.804	7.891	10.307	13.045	31.565	41.227
4,5		5.648	7.217	8.370	10.932	13.836	33.479	43.728
5		5.953	7.607	8.823	11.523	14.584	35.290	46.094
5,5		6.244	7.979	9.253	12.086	15.296	37.013	48.343
6		6.521	8.333	9.665	12.623	15.976	38.659	50.493
6,5		6.787	8.674	10.059	13.139	16.629	40.237	52.555
7		7.044	9.001	10.439	13.635	17.256	41.756	54.539
7,5		7.291	9.317	10.805	14.113	17.862	43.222	56.453
8		7.530	9.622	11.160	14.576	18.448	44.639	58.304
8,5		7.762	9.919	11.503	15.025	19.016	46.013	60.099
9		7.987	10.206	11.837	15.460	19.567	47.347	61.841
9,5		8.206	10.486	12.161	15.884	20.103	48.644	63.536
10		8.419	10.758	12.477	16.297	20.625	49.908	65.186
11		8.830	11.283	13.086	17.092	21.632	52.344	68.368
12		9.222	11.785	13.668	17.852	22.594	54.672	71.408
13		9.599	12.266	14.226	18.581	23.516	56.904	74.324
14		9.961	12.729	14.763	19.282	24.404	59.052	77.129
15		10.311	13.176	15.281	19.959	25.261	61.125	79.836
16		10.649	13.608	15.782	20.614	26.089	63.129	82.455
17		10.977	14.027	16.268	21.248	26.892	65.072	84.992
18		11.295	14.434	16.740	21.864	27.672	66.959	87.456
19		11.605	14.829	17.198	22.463	28.430	68.794	89.853
20		11.906	15.214	17.645	23.047	29.169	70.581	92.187
21		12.200	15.590	18.081	23.616	29.889	72.324	94.464
22		12.487	15.957	18.506	24.172	30.592	74.026	96.687
23		12.768	16.316	18.922	24.715	31.280	75.689	98.860
24		13.042	16.667	19.329	25.246	31.953	77.317	100.986
25		13.311	17.010	19.728	25.767	32.611	78.912	103.068



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT WATER fig 1216

SERIE 1216 PN-16/40

Data sheet

Calculation: AD-Merkblatt A 2

Water flow capacity Kg/h 20 °C Overpressure 10 %

1216	1/2 x 3/4 1/2 x 1	3/4 x 3/4 3/4 x 1 3/4 x 1 1/4	1 x 1 1 x 1 1/4	1 1/4 x 1 1/4
Diam (mm)	13	14	16	18
Area(mm ²)	133	154	201	254
Presión en bar g				
0,5	2.406	2.790	3.644	4.612
1	3.402	3.946	5.153	6.522
1,5	4.167	4.832	6.312	7.988
2	4.811	5.580	7.288	9.224
2,5	5.379	6.239	8.148	10.313
3	5.893	6.834	8.926	11.297
3,5	6.365	7.382	9.641	12.202
4	6.804	7.891	10.307	13.045
4,5	7.217	8.370	10.932	13.836
5	7.607	8.823	11.523	14.584
5,5	7.979	9.253	12.086	15.296
6	8.333	9.665	12.623	15.976
6,5	8.674	10.059	13.139	16.629
7	9.001	10.439	13.635	17.256
7,5	9.317	10.805	14.113	17.862
8	9.622	11.160	14.576	18.448
8,5	9.919	11.503	15.025	19.016
9	10.206	11.837	15.460	19.567
9,5	10.486	12.161	15.884	20.103
10	10.758	12.477	16.297	20.625
11	11.283	13.086	17.092	21.632
12	11.785	13.668	17.852	22.594
13	12.266	14.226	18.581	23.516
14	12.729	14.763	19.282	24.404
15	13.176	15.281	19.959	25.261
16	13.608	15.782	20.614	26.089
17	14.027	16.268	21.248	26.892
18	14.434	16.740	21.864	27.672
19	14.829	17.198	22.463	28.430
20	15.214	17.645	23.047	29.169
21	15.590	18.081	23.616	29.889
22	15.957	18.506	24.172	30.592
23	16.316	18.922	24.715	31.280
24	16.667	19.329	25.246	31.953
25	17.010	19.728	25.767	32.611
26	17.347	20.119	26.277	33.257
27	17.678	20.502	26.778	33.891
28	18.002	20.878	27.269	34.513
29	18.321	21.248	27.752	35.124
30	18.634	21.611	28.226	35.724
31	18.942	21.968	28.693	36.315
32	19.245	22.320	29.152	36.896
33	19.543	22.666	29.604	37.468
34	19.837	23.007	30.049	38.031
35	20.127	23.342	30.488	38.586
36	20.412	23.674	30.921	39.134
37	20.694	24.000	31.347	39.674
38	20.972	24.322	31.768	40.206
39	21.246	24.640	32.183	40.732
40	21.517	24.954	32.593	41.251



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT WATER fig 1416 PN 16-40

SERIE 1416 PN-16/40

Data sheet

Calculation: AD-Merkblatt A 2

Water flow capacity Kg/h 20 °C Overpressure 10 %

1416	1x1	1x11/2	11/4x11/2	11/2x11/2	11/4x2	11/2x2	2 x 2	2 x 21/2 2 x 3 21/2x21/ 2 21/2x3 3x3	21/2x4	3 x 4 x 4
Diam (mm)	18	23,8	23,8	23,8	29,5	36	46	46	55	60
Área(mm ²)	254	445	445	445	683	1.018	1.662	1.662	2.376	2.827
Presión										
en bar g										
0,5	5.285	9.239	9.239	9.239	14.194	21.138	34.513	34.513	49.339	53.379
1	7.473	13.066	13.066	13.066	20.073	29.894	48.808	48.808	69.775	75.490
1,5	9.153	16.002	16.002	16.002	24.585	36.612	59.778	59.778	85.457	92.455
2	10.569	18.478	18.478	18.478	28.388	42.276	69.025	69.025	98.677	106.758
2,5	11.817	20.659	20.659	20.659	31.739	47.266	77.172	77.172	110.325	119.359
3	12.944	22.630	22.630	22.630	34.768	51.778	84.538	84.538	120.854	130.752
3,5	13.982	24.444	24.444	24.444	37.554	55.926	91.312	91.312	130.538	141.228
4	14.947	26.131	26.131	26.131	40.147	59.788	97.616	97.616	139.551	150.979
4,5	15.854	27.716	27.716	27.716	42.582	63.414	103.538	103.538	148.016	160.137
5	16.711	29.216	29.216	29.216	44.885	66.845	109.138	109.138	156.022	168.800
5,5	17.527	30.642	30.642	30.642	47.076	70.107	114.465	114.465	163.638	177.039
6	18.306	32.004	32.004	32.004	49.170	73.225	119.555	119.555	170.914	184.911
6,5	19.054	33.311	33.311	33.311	51.177	76.215	124.437	124.437	177.893	192.461
7	19.773	34.568	34.568	34.568	53.109	79.092	129.134	129.134	184.608	199.726
7,5	20.467	35.782	35.782	35.782	54.973	81.868	133.667	133.667	191.088	206.737
8	21.138	36.955	36.955	36.955	56.776	84.553	138.050	138.050	197.355	213.517
8,5	21.789	38.093	38.093	38.093	58.523	87.155	142.299	142.299	203.428	220.088
9	22.420	39.197	39.197	39.197	60.220	89.682	146.424	146.424	209.326	226.469
9,5	23.035	40.271	40.271	40.271	61.870	92.139	150.437	150.437	215.062	232.674
10	23.633	41.317	41.317	41.317	63.478	94.533	154.345	154.345	220.649	238.719
11	24.787	43.334	43.334	43.334	66.576	99.147	161.878	161.878	231.419	250.370
12	25.889	45.261	45.261	45.261	69.536	103.555	169.076	169.076	241.709	261.503
13	26.946	47.109	47.109	47.109	72.376	107.784	175.980	175.980	251.579	272.181
14	27.963	48.887	48.887	48.887	75.108	111.853	182.623	182.623	261.076	282.456
15	28.945	50.603	50.603	50.603	77.744	115.778	189.033	189.033	270.239	292.370
16	29.894	52.263	52.263	52.263	80.294	119.575	195.233	195.233	279.101	301.958
17	30.814	53.871	53.871	53.871	82.765	123.255	201.241	201.241	287.691	311.251
18	31.707	55.433	55.433	55.433	85.164	126.829	207.075	207.075	296.032	320.275
19	32.576	56.952	56.952	56.952	87.498	130.304	212.750	212.750	304.144	329.051
20	33.422	58.431	58.431	58.431	89.771	133.689	218.277	218.277	312.045	337.599
21	34.248	59.874	59.874	59.874	91.988	136.991	223.667	223.667	319.751	345.936
22	35.054	61.283	61.283	61.283	94.153	140.215	228.931	228.931	327.276	354.077
23	35.841	62.661	62.661	62.661	96.269	143.366	234.076	234.076	334.631	362.035
24	36.612	64.008	64.008	64.008	98.339	146.449	239.110	239.110	341.828	369.822
25	37.367	65.328	65.328	65.328	100.367	149.469	244.041	244.041	348.877	377.448
26	38.107	66.622	66.622	66.622	102.355	152.429	248.874	248.874	355.786	384.922
27	38.833	67.891	67.891	67.891	104.304	155.333	253.615	253.615	362.563	392.255
28	39.546	69.137	69.137	69.137	106.218	158.183	258.269	258.269	369.217	399.453
29	40.246	70.361	70.361	70.361	108.099	160.983	262.840	262.840	375.752	406.523
30	40.934	71.563	71.563	71.563	109.947	163.735	267.333	267.333	382.175	413.473
31	41.610	72.746	72.746	72.746	111.764	166.442	271.752	271.752	388.493	420.308
32	42.276	73.910	73.910	73.910	113.552	169.105	276.101	276.101	394.709	427.033
33	42.932	75.056	75.056	75.056	115.313	171.727	280.382	280.382	400.829	433.654
34	43.577	76.185	76.185	76.185	117.047	174.310	284.598	284.598	406.857	440.176
35	44.214	77.297	77.297	77.297	118.756	176.854	288.753	288.753	412.797	446.602
36	44.841	78.394	78.394	78.394	120.440	179.363	292.849	292.849	418.652	452.937
37	45.459	79.475	79.475	79.475	122.102	181.837	296.888	296.888	424.427	459.185
38	46.070	80.542	80.542	80.542	123.741	184.278	300.874	300.874	430.124	465.349
39	46.672	81.595	81.595	81.595	125.358	186.687	304.807	304.807	435.747	471.432
40	47.266	82.634	82.634	82.634	126.955	189.065	308.690	308.690	441.298	477.438



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT WATER fig 1416 PN 64-160

SERIE 1416 PN-64/100

Data sheet

Calculation: AD-Merkblatt A 2

Water flow capacity Kg/h 20 °C Overpressure 10 %

1416 PN-64	1/2X1			1X1	1X11/2	11/4X2		11/2X21/2	2X3			21/2X4
1416 PN-100	3/4X1	1X1		1X11/2	11/4X2		11/2X21/2	2X3			21/2X4	
Diam (mm)	14	14	14	16	18	20	23,8	26	29,5	32	36	39
Área(mm²)	154	154	154	201	254	314	445	531	683	804	1.018	1.195
Presión en bar g												
41	28.961	28.961	28.961	37.799	47.766	59.050	83.685	99.858	128.443	151.198	191.442	224.728
42	29.312	29.312	29.312	38.258	48.345	59.766	84.700	101.069	130.000	153.031	193.763	227.452
43	29.659	29.659	29.659	38.710	48.918	60.473	85.702	102.265	131.538	154.842	196.056	230.144
44	30.002	30.002	30.002	39.158	49.483	61.172	86.693	103.447	133.059	156.632	198.322	232.805
45	30.341	30.341	30.341	39.600	50.042	61.863	87.673	104.616	134.563	158.402	200.563	235.435
46	30.676	30.676	30.676	40.038	50.595	62.547	88.641	105.772	136.050	160.152	202.780	238.037
47	31.008	31.008	31.008	40.471	51.142	63.223	89.600	106.916	137.520	161.883	204.972	240.610
48	31.336	31.336	31.336	40.899	51.683	63.892	90.548	108.047	138.976	163.597	207.141	243.157
49	31.660	31.660	31.660	41.323	52.219	64.554	91.486	109.167	140.416	165.292	209.288	245.676
50	31.982	31.982	31.982	41.743	52.749	65.210	92.415	110.275	141.841	166.970	211.412	248.171
51	32.300	32.300	32.300	42.158	53.274	65.859	93.335	111.372	143.253	168.631	213.516	250.640
52	32.615	32.615	32.615	42.569	53.794	66.501	94.245	112.459	144.650	170.277	215.599	253.085
53	32.927	32.927	32.927	42.977	54.309	67.137	95.147	113.535	146.035	171.906	217.662	255.507
54	33.236	33.236	33.236	43.380	54.819	67.768	96.040	114.601	147.406	173.520	219.706	257.907
55	33.543	33.543	33.543	43.780	55.324	68.393	96.926	115.657	148.765	175.120	221.731	260.284
56	33.846	33.846	33.846	44.176	55.825	69.011	97.803	116.704	150.111	176.704	223.738	262.639
57	34.147	34.147	34.147	44.569	56.321	69.625	98.672	117.741	151.445	178.275	225.727	264.974
58	34.445	34.445	34.445	44.958	56.813	70.233	99.534	118.770	152.768	179.832	227.698	267.288
59	34.741	34.741	34.741	45.344	57.300	70.836	100.388	119.789	154.079	181.376	229.653	269.582
60	35.034	35.034	35.034	45.727	57.784	71.434	101.236	120.800	155.380	182.907	231.591	271.857
62	35.613	35.613	35.613	46.482	58.739	72.614	102.909	122.797	157.948	185.930	235.419	276.351
64	36.183	36.183	36.183	47.226	59.679	73.776	104.556	124.762	160.475	188.905	239.186	280.773
66	36.744	36.744	36.744	47.958	60.604	74.920	106.177	126.696	162.963	191.834	242.894	285.126
68	37.297	37.297	37.297	48.680	61.516	76.047	107.773	128.602	165.414	194.719	246.547	289.414
70	37.841	37.841	37.841	49.390	62.414	77.157	109.347	130.479	167.829	197.562	250.146	293.639
72	38.378	38.378	38.378	50.091	63.299	78.252	110.898	132.330	170.210	200.364	253.695	297.805
74	38.908	38.908	38.908	50.782	64.172	79.331	112.428	134.155	172.558	203.128	257.194	301.913
76	39.430	39.430	39.430	51.464	65.034	80.396	113.937	135.956	174.874	205.854	260.647	305.965
78	39.945	39.945	39.945	52.136	65.884	81.447	115.426	137.733	177.160	208.546	264.054	309.965
80	40.454	40.454	40.454	52.801	66.723	82.484	116.897	139.488	179.417	211.202	267.418	313.914
82	40.957	40.957	40.957	53.456	67.552	83.509	118.349	141.221	181.646	213.826		
84	41.453	41.453	41.453	54.104	68.371	84.521	119.784	142.933	183.848	216.418		
86	41.944	41.944	41.944	54.745	69.180	85.522	121.201	144.624	186.023	218.979		
88	42.429	42.429	42.429	55.378	69.980	86.510	122.602	146.296	188.174	221.511		
90	42.908	42.908	42.908	56.003	70.771	87.488	123.988	147.949				
94	43.851	43.851	43.851	57.234	72.326	89.411	126.713	151.201				
98	44.775	44.775	44.775	58.440	73.849	91.294	129.381					
102	45.679	45.679	45.679	59.620	75.341	93.138	131.995					
106	46.566	46.566	46.566	60.778	76.804	94.947	134.558					
110	47.437	47.437	47.437	61.914	78.240	96.722						
114	48.291	48.291	48.291	63.030	79.650	98.464						
118	49.131	49.131	49.131	64.126	81.035	100.177						
122	49.957	49.957	49.957	65.204	82.397	101.861						
126	50.770	50.770	50.770	66.264	83.737							
130	51.569	51.569	51.569	67.308	85.056							



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT WATER fig 1400 PN 16-40

SERIE 1400 PN-16/40

Data sheet

Calculation: AD-Merkblatt A 2

Water flow capacity Kg/h 20 °C Overpressure 10 %

1400	15x25	20x32	25x40	32x50	40x65	50x80	65x100	80x125	100x150	125x200	150x200	200x250
Diam (mm)	16	18	23,8	29,5	36	46	60	72	90	105	125	153
Área(mm ²)	201	254	445	683	1.018	1.662	2.827	4.071	6.362	8.659	12.272	18.385
Presión en bar g												
0,5	4.175	5.285	9.239	14.194	21.138	34.513	58.717	84.553	132.113	179.821	254.848	381.808
1	5.905	7.473	13.066	20.073	29.894	48.808	83.038	119.575	186.837	254.305	360.410	539.958
1,5	7.232	9.153	16.002	24.585	36.612	59.778	101.701	146.449	228.827	311.459	441.410	661.310
2	8.351	10.569	18.478	28.388	42.276	69.025	117.434	169.105	264.227	359.642	509.697	763.615
2,5	9.337	11.817	20.659	31.739	47.266	77.172	131.295	189.065	295.415	402.092	569.858	853.748
3	10.228	12.944	22.630	34.768	51.778	84.538	143.827	207.111	323.610	440.470	624.248	935.234
3,5	11.047	13.982	24.444	37.554	55.926	91.312	155.351	223.705	349.539	475.762	674.265	1.010.168
4	11.810	14.947	26.131	40.147	59.788	97.616	166.077	239.151	373.673	508.611	720.820	1.079.915
4,5	12.526	15.854	27.716	42.582	63.414	103.538	176.151	253.658	396.340	539.463	764.545	1.145.423
5	13.204	16.711	29.216	44.885	66.845	109.138	185.680	267.379	417.779	568.644	805.901	1.207.382
5,5	13.848	17.527	30.642	47.076	70.107	114.465	194.742	280.429	438.171	596.399	845.236	1.266.313
6	14.464	18.306	32.004	49.170	73.225	119.555	203.402	292.899	457.654	622.918	882.821	1.322.621
6,5	15.055	19.054	33.311	51.177	76.215	124.437	211.707	304.859	476.342	648.354	918.869	
7	15.623	19.773	34.568	53.109	79.092	129.134	219.699	316.367	494.323	672.829	953.555	
7,5	16.171	20.467	35.782	54.973	81.868	133.667	227.410	327.471	511.673	696.444	987.023	
8	16.702	21.138	36.955	56.776	84.553	138.050	234.868	338.210	528.454	719.284	1.019.393	
8,5	17.216	21.789	38.093	58.523	87.155	142.299	242.097	348.619	544.717	741.421	1.050.767	
9	17.715	22.420	39.197	60.220	89.682	146.424	249.115	358.726	560.510	762.916	1.081.230	
9,5	18.200	23.035	40.271	61.870	92.139	150.437	255.942	368.556	575.869	783.822	1.110.858	
10	18.673	23.633	41.317	63.478	94.533	154.345	262.591	378.131	590.829	804.184	1.139.716	
11	19.585	24.787	43.334	66.576	99.147	161.878	275.407	396.587	619.667	843.435		
12	20.455	25.889	45.261	69.536	103.555	169.076	287.654	414.221	647.221	880.939		
13	21.291	26.946	47.109	72.376	107.784	175.980	299.399	431.135	673.649	916.911		
14	22.094	27.963	48.887	75.108	111.853	182.623	310.701	447.410	699.078	951.523		
15	22.870	28.945	50.603	77.744	115.778	189.033	321.607	463.113	723.615	984.920		
16	23.620	29.894	52.263	80.294	119.575	195.233	332.154	478.302	747.346	1.017.221		
17	24.347	30.814	53.871	82.765	123.255	201.241	342.376	493.022	770.347			
18	25.053	31.707	55.433	85.164	126.829	207.075	352.302	507.315	792.680			
19	25.739	32.576	56.952	87.498	130.304	212.750	361.956	521.217	814.402			
20	26.408	33.422	58.431	89.771	133.689	218.277	371.359	534.757	835.558			
21	27.060	34.248	59.874	91.988	136.991	223.667	380.530	547.963	856.193			
22	27.697	35.054	61.283	94.153	140.215	228.931	389.485	560.858	876.341			
23	28.319	35.841	62.661	96.269	143.366	234.076	398.238	573.463	896.037			
24	28.928	36.612	64.008	98.339	146.449	239.110	406.804	585.797	915.308			
25	29.525	37.367	65.328	100.367	149.469	244.041	415.192	597.877				
26	30.109	38.107	66.622	102.355	152.429	248.874	423.415	609.717				
27	30.683	38.833	67.891	104.304	155.333	253.615	431.480	621.332				
28	31.246	39.546	69.137	106.218	158.183	258.269	439.398	632.733				
29	31.799	40.246	70.361	108.099	160.983	262.840	447.176	643.933				
30	32.343	40.934	71.563	109.947	163.735	267.333	454.820	654.941				
31	32.877	41.610	72.746	111.764	166.442	271.752	462.339	665.768				
32	33.403	42.276	73.910	113.552	169.105	276.101	469.736	676.421				
33	33.921	42.932	75.056	115.313	171.727	280.382	477.020	686.908				
34	34.432	43.577	76.185	117.047	174.310	284.598	484.193	697.238				
35	34.934	44.214	77.297	118.756	176.854	288.753	491.262	707.418				
36	35.430	44.841	78.394	120.440	179.363	292.849	498.231	717.452				
37	35.918	45.459	79.475	122.102	181.837	296.888	505.103	727.349				
38	36.401	46.070	80.542	123.741	184.278	300.874	511.883					
39	36.876	46.672	81.595	125.358	186.687	304.807	518.575					
40	37.346	47.266	82.634	126.955	189.065	308.690	525.181					



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT WATER fig 1400 PN 64-100

SERIE 1400 PN-64/100

Data sheet

Calculation: AD-Merkblatt A 2

Water flow capacity Kg/h 20 °C Overpressure 10 %

1400 PN-64	15x25 20x32			25x50	32x50	40x65	50x80	65x100	65x100
1400 PN-100				25x50	32x50	40x65			
Diam (mm)	13	13	16	20	23,8	26	32	39	48
Area(mm ²)	133	133	201	314	445	531	804	1.195	1.810
Presión en bar g									
41	25.012	25.012	37.799	59.050	83.685	99.858	151.198	224.728	340.383
42	25.315	25.315	38.258	59.766	84.700	101.069	153.031	227.452	344.509
43	25.614	25.614	38.710	60.473	85.702	102.265	154.842	230.144	348.586
44	25.910	25.910	39.158	61.172	86.693	103.447	156.632	232.805	352.616
45	26.203	26.203	39.600	61.863	87.673	104.616	158.402	235.435	356.601
46	26.493	26.493	40.038	62.547	88.641	105.772	160.152	238.037	360.541
47	26.779	26.779	40.471	63.223	89.600	106.916	161.883	240.610	364.439
48	27.063	27.063	40.899	63.892	90.548	108.047	163.597	243.157	368.296
49	27.343	27.343	41.323	64.554	91.486	109.167	165.292	245.676	372.112
50	27.621	27.621	41.743	65.210	92.415	110.275	166.970	248.171	375.890
51	27.896	27.896	42.158	65.859	93.335	111.372	168.631	250.640	379.631
52	28.168	28.168	42.569	66.501	94.245	112.459	170.277	253.085	383.334
53	28.437	28.437	42.977	67.137	95.147	113.535	171.906	255.507	387.003
54	28.704	28.704	43.380	67.768	96.040	114.601	173.520	257.907	390.637
55	28.969	28.969	43.780	68.393	96.926	115.657	175.120	260.284	394.237
56	29.231	29.231	44.176	69.011	97.803	116.704	176.704	262.639	397.805
57	29.491	29.491	44.569	69.625	98.672	117.741	178.275	264.974	401.341
58	29.748	29.748	44.958	70.233	99.534	118.770	179.832	267.288	404.846
59	30.004	30.004	45.344	70.836	100.388	119.789	181.376	269.582	408.321
60	30.257	30.257	45.727	71.434	101.236	120.800	182.907	271.857	411.767
62	30.757	30.757	46.482	72.614	102.909	122.797	185.930	276.351	418.574
64	31.249	31.249	47.226	73.776	104.556	124.762	188.905	280.773	425.271
66	31.734	31.734	47.958	74.920	106.177	126.696	191.834	285.126	431.865
68	32.211	32.211	48.680	76.047	107.773	128.602	194.719	289.414	438.360
70	32.681	32.681	49.390	77.157	109.347	130.479	197.562	293.639	444.759
72	33.145	33.145	50.091	78.252	110.898	132.330	200.364	297.805	451.068
74	33.602	33.602	50.782	79.331	112.428	134.155	203.128	301.913	
76	34.053	34.053	51.464	80.396	113.937	135.956	205.854	305.965	
78	34.498	34.498	52.136	81.447	115.426	137.733	208.546	309.965	
80	34.938	34.938	52.801	82.484	116.897	139.488	211.202	313.914	
82	35.372	35.372	53.456	83.509	118.349	141.221	213.826		
84	35.800	35.800	54.104	84.521	119.784	142.933	216.418		
86	36.224	36.224	54.745	85.522	121.201	144.624	218.979		
88	36.643	36.643	55.378	86.510	122.602	146.296	221.511		
90	37.057	37.057	56.003	87.488	123.988	147.949			
94	37.872	37.872	57.234	89.411	126.713	151.201			
98	38.669	38.669	58.440	91.294	129.381				
102	39.450	39.450	59.620	93.138	131.995				
106	40.216	40.216	60.778	94.947	134.558				
110	40.968	40.968	61.914	96.722					
114	41.706	41.706	63.030	98.464					
118	42.432	42.432	64.126	100.177					
122	43.145	43.145	65.204	101.861					
126	43.846	43.846	66.264						
130	44.537	44.537	67.308						



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT STOOM fig 902 PN 25

SERIE 800 PN-25

Technical sheet

Capacity for steam kg/h Overpressure 10 %

Calculation: AD-Merkblatt A2

800		1/2 x 3/4 3/4 x 3/4	1/2 x 1	3/4 x 1 3/4 x 1 1/4	1 x 1 1 x 1 1/4	1 1/4 x 1 1/4	1 1/2 x 2	2 x 2
Diam (mm)		11,5	13	14	16	18	28	32
Area(mm ²)		104	133	154	201	254	616	804
Set gauge pressure (bar)								
0,5		48	62	72	94	119	287	375
1		66	84	97	127	161	389	508
1,5		83	106	123	160	203	490	641
2		99	126	146	191	242	586	765
2,5		116	148	172	224	284	686	897
3		131	168	195	254	322	779	1.017
3,5		147	188	218	285	361	874	1.141
4		162	207	241	314	398	962	1.257
4,5		179	229	265	346	438	1.061	1.385
5		194	248	288	376	476	1.152	1.505
5,5		211	269	313	408	517	1.250	1.633
6		227	290	337	440	557	1.348	1.760
6,5		244	311	361	472	597	1.445	1.887
7		260	333	386	504	637	1.543	2.015
7,5		277	354	410	536	678	1.640	2.142
8		293	375	434	567	718	1.738	2.270
8,5		310	396	459	599	758	1.835	2.397
9		323	412	478	625	790	1.913	2.498
9,5		339	433	502	656	830	2.009	2.624
10		355	454	526	688	870	2.106	2.750
11		386	493	572	747	945	2.287	2.987
12		418	534	620	809	1.024	2.479	3.238
13		451	576	668	872	1.104	2.671	3.488
14		483	617	716	935	1.183	2.863	3.739
15		515	659	764	998	1.262	3.055	3.990
16		548	700	812	1.060	1.342	3.247	4.241
17		580	741	860	1.123	1.421	3.439	4.492
18		612	783	908	1.186	1.501	3.631	4.742



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT STOOM fig 1216 PN 16-40

SERIE 1216 PN-16/40

Technical sheet

Capacity for steam kg/h Overpressure 10 %

Calculation: AD-Merkblatt A2

1216		1/2 x 3/4 1/2 x 1	3/4x3/4 3/4 x1 3/4 x 1 1/4	1 x 1 1 x 1 1/4	1 1/4 x 1 1/4
Diam (mm)		13	14	16	18
Area(mm ²)		133	154	201	254
Set gauge pressure (bar)					
0,5		62	72	94	119
1		84	97	127	161
1,5		106	123	160	203
2		126	146	191	242
2,5		148	172	224	284
3		168	195	254	322
3,5		188	218	285	361
4		207	241	314	398
4,5		229	265	346	438
5		248	288	376	476
5,5		269	313	408	517
6		290	337	440	557
6,5		311	361	472	597
7		333	386	504	637
7,5		354	410	536	678
8		375	434	567	718
8,5		396	459	599	758
9		412	478	625	790
9,5		433	502	656	830
10		454	526	688	870
11		493	572	747	945
12		534	620	809	1.024
13		576	668	872	1.104
14		617	716	935	1.183
15		659	764	998	1.262
16		700	812	1.060	1.342
17		741	860	1.123	1.421
18		783	908	1.186	1.501
19		824	956	1.248	1.580
20		865	1.004	1.311	1.659
21		907	1.052	1.374	1.739
22		948	1.100	1.436	1.818
23		990	1.148	1.499	1.897
24		1.031	1.196	1.562	1.977
25		1.072	1.244	1.625	2.056
26		1.114	1.292	1.687	2.135
27		1.155	1.340	1.750	2.215
28		1.197	1.388	1.813	2.294
29		1.238	1.436	1.875	2.373
30		1.279	1.484	1.938	2.453
31		1.321	1.532	2.001	2.532
32		1.362	1.580	2.063	2.612



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT STOOM fig 1416 PN 16-40

SERIE 1416 PN-16/40

Technical sheet

Capacity for steam kg/h Overpressure 10 %

Calculation: AD-Merkblatt A2

1416	1x1	1x11/2	11/4x 11/2	11/2x11/2	11/4x2	11/2x2	2 x 2	2 x 21/2 2 x 3 21/2x21/ 2 21/2x3 3x3	21/2x4	3 x 4 4 x 4
Diam (mm)	18	23,8	23,8	23,8	29,5	36	46	46	55	60
Area(mm ²)	254	445	445	445	683	1.018	1.662	1.662	2.376	2.827
Set gauge pressure (bar)										
0,5	138	241	241	241	370	552	901	901	1.288	1.533
1	187	327	327	327	502	748	1.221	1.221	1.745	2.076
1,5	236	412	412	412	633	943	1.540	1.540	2.202	2.620
2	282	492	492	492	757	1.127	1.840	1.840	2.630	3.130
2,5	330	577	577	577	887	1.320	2.156	2.156	3.082	3.668
3	374	655	655	655	1.006	1.498	2.446	2.446	3.496	4.161
3,5	420	735	735	735	1.128	1.681	2.744	2.744	3.923	4.668
4	463	809	809	809	1.243	1.851	3.023	3.023	4.321	5.143
4,5	510	892	892	892	1.370	2.040	3.331	3.331	4.762	5.667
5	554	969	969	969	1.489	2.217	3.620	3.620	5.174	6.158
5,5	601	1.051	1.051	1.051	1.615	2.404	3.926	3.926	5.612	6.679
6	648	1.133	1.133	1.133	1.741	2.592	4.232	4.232	6.050	7.200
6,5	695	1.215	1.215	1.215	1.866	2.780	4.539	4.538	6.488	7.721
7	742	1.297	1.297	1.297	1.992	2.967	4.845	4.845	6.926	8.242
7,5	789	1.379	1.379	1.379	2.118	3.155	5.151	5.151	7.364	8.763
8	836	1.461	1.461	1.461	2.244	3.342	5.458	5.457	7.801	9.284
8,5	882	1.543	1.543	1.543	2.370	3.530	5.764	5.763	8.239	9.805
9	920	1.608	1.608	1.608	2.470	3.679	6.007	6.007	8.587	10.220
9,5	966	1.689	1.689	1.689	2.595	3.865	6.310	6.310	9.021	10.735
10	1.013	1.770	1.770	1.770	2.720	4.050	6.614	6.613	9.454	11.251
11	1.100	1.923	1.923	1.923	2.954	4.399	7.183	7.182	10.267	12.219
12	1.192	2.084	2.084	2.084	3.202	4.768	7.786	7.785	11.129	13.245
13	1.284	2.245	2.245	2.245	3.450	5.138	8.389	8.388	11.992	14.271
14	1.377	2.407	2.407	2.407	3.698	5.507	8.992	8.991	12.854	15.297
15	1.469	2.568	2.568	2.568	3.946	5.876	9.595	9.594	13.716	16.323
16	1.561	2.730	2.730	2.730	4.194	6.246	10.198	10.197	14.578	17.349
17	1.654	2.891	2.891	2.891	4.442	6.615	10.801	10.800	15.440	18.375
18	1.746	3.053	3.053	3.053	4.690	6.984	11.404	11.403	16.302	19.401
19	1.838	3.214	3.214	3.214	4.938	7.354	12.008	12.007	17.164	20.427
20	1.931	3.376	3.376	3.376	5.186	7.723	12.611	12.610	18.026	21.453
21	2.023	3.537	3.537	3.537	5.434	8.092	13.214	13.213	18.889	22.479
22	2.115	3.698	3.698	3.698	5.682	8.462	13.817	13.816	19.751	23.505
23	2.208	3.860	3.860	3.860	5.930	8.831	14.420	14.419	20.613	24.531
24	2.300	4.021	4.021	4.021	6.178	9.201	15.023	15.022	21.475	25.557
25	2.392	4.183	4.183	4.183	6.426	9.570	15.626	15.625	22.337	26.583
26	2.485	4.344	4.344	4.344	6.674	9.939	16.229	16.228	23.199	27.609
27	2.577	4.506	4.506	4.506	6.922	10.309	16.832	16.831	24.061	28.635
28	2.669	4.667	4.667	4.667	7.170	10.678	17.436	17.434	24.924	29.661
29	2.762	4.828	4.828	4.828	7.418	11.047	18.039	18.037	25.786	30.687
30	2.854	4.990	4.990	4.990	7.666	11.417	18.642	18.640	26.648	31.713
31	2.947	5.151	5.151	5.151	7.914	11.786	19.245	19.243	27.510	32.739
32	3.039	5.313	5.313	5.313	8.162	12.155	19.848	19.846	28.372	33.765



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT STOOM fig 1416 PN 64-160

SERIE 1416 PN-64/100

Technical sheet

Capacity for steam kg/h Overpressure 10 %

Calculation: AD-Merkblatt A2

1416 PN-64	1/2X1			1X1	1X11/2	11/4X2		11/2X21/2	2X3			21/2X4
1416 PN-100	3/4X1	1X1		1X11/2	11/4X2		11/2X21/2	2X3			21/2X4	
Diam (mm)	14	14	14	16	18	20	23,8	26	29,5	32	36	39
Area(mm ²)	154	154	154	201	254	314	445	531	683	804	1.018	1.195
Set gauge												
pressure (bar)												
33	1.870	1.870	1.870	2.443	3.091	3.817	5.405	6.450	8.303	9.770	12.365	14.512
34	1.925	1.925	1.925	2.515	3.183	3.929	5.564	6.640	8.548	10.058	12.730	14.940
35	1.980	1.980	1.980	2.587	3.274	4.042	5.723	6.830	8.793	10.347	13.095	15.368
36	2.036	2.036	2.036	2.659	3.365	4.154	5.883	7.021	9.038	10.635	13.459	15.796
37	2.085	2.085	2.085	2.724	3.447	4.256	6.027	7.192	9.259	10.895	13.789	16.183
38	2.140	2.140	2.140	2.796	3.538	4.368	6.186	7.382	9.503	11.182	14.153	16.610
39	2.195	2.195	2.195	2.867	3.629	4.480	6.345	7.572	9.748	11.470	14.517	17.037
40	2.250	2.250	2.250	2.939	3.720	4.593	6.504	7.762	9.992	11.757	14.880	17.464
41	2.305	2.305	2.305	3.011	3.811	4.705	6.663	7.951	10.236	12.045	15.244	17.891
42	2.360	2.360	2.360	3.083	3.902	4.817	6.822	8.141	10.480	12.332	15.608	18.317
43	2.415	2.415	2.415	3.155	3.993	4.929	6.981	8.331	10.725	12.619	15.971	18.744
44	2.470	2.470	2.470	3.227	4.084	5.042	7.140	8.521	10.969	12.907	16.335	19.171
45	2.525	2.525	2.525	3.299	4.175	5.154	7.299	8.710	11.213	13.194	16.699	19.598
46	2.580	2.580	2.580	3.370	4.266	5.266	7.458	8.900	11.457	13.482	17.063	20.025
47	2.635	2.635	2.635	3.442	4.357	5.379	7.617	9.090	11.702	13.769	17.426	20.452
48	2.690	2.690	2.690	3.514	4.448	5.491	7.776	9.279	11.946	14.056	17.790	20.879
49	2.746	2.746	2.746	3.586	4.538	5.603	7.934	9.469	12.190	14.344	18.154	21.306
50	2.801	2.801	2.801	3.658	4.629	5.715	8.093	9.659	12.434	14.631	18.518	21.733
52	2.925	2.925	2.925	3.821	4.836	5.970	8.454	10.090	12.989	15.284	19.343	22.702
54	3.036	3.036	3.036	3.965	5.019	6.196	8.774	10.471	13.480	15.861	20.075	23.560
56	3.147	3.147	3.147	4.110	5.201	6.422	9.094	10.852	13.971	16.439	20.806	24.418
58	3.257	3.257	3.257	4.254	5.384	6.647	9.413	11.234	14.462	17.017	21.537	25.276
60	3.368	3.368	3.368	4.399	5.567	6.873	9.733	11.615	14.953	17.595	22.268	26.134
62	3.478	3.478	3.478	4.543	5.750	7.099	10.052	11.997	15.444	18.172	22.999	26.992
64	3.589	3.589	3.589	4.688	5.933	7.324	10.372	12.378	15.935	18.750	23.730	27.850
66	3.699	3.699	3.699	4.832	6.115	7.550	10.691	12.759	16.426	19.328	24.462	28.708
68	3.810	3.810	3.810	4.976	6.298	7.776	11.011	13.141	16.917	19.905	25.193	29.567
70	3.941	3.941	3.941	5.147	6.514	8.042	11.389	13.591	17.497	20.588	26.057	30.581
72	4.052	4.052	4.052	5.292	6.698	8.269	11.710	13.975	17.990	21.169	26.792	31.443
74	4.163	4.163	4.163	5.437	6.882	8.496	12.031	14.358	18.484	21.750	27.527	32.306
76	4.274	4.274	4.274	5.583	7.065	8.723	12.352	14.742	18.978	22.330	28.262	33.168
78	4.385	4.385	4.385	5.728	7.249	8.950	12.674	15.125	19.471	22.911	28.997	
80	4.520	4.520	4.520	5.903	7.471	9.224	13.062	15.588	20.067	23.613	29.885	
82	4.631	4.631	4.631	6.049	7.656	9.452	13.385	15.973	20.563	24.196		
84	4.743	4.743	4.743	6.195	7.841	9.680	13.708	16.359	21.060	24.780		
86	4.855	4.855	4.855	6.341	8.025	9.908	14.030	16.744	21.556	25.364		
88	4.967	4.967	4.967	6.487	8.210	10.136	14.353					
90	5.078	5.078	5.078	6.633	8.395	10.364	14.676					
94	5.302	5.302	5.302	6.925	8.764	10.820						
98	5.525	5.525	5.525	7.216	9.133	11.276						
100	5.666	5.666	5.666	7.401	9.366	11.563						



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT STOOM fig 1400 PN 16-40

SERIE 1400 PN-16/40

Technical sheet

Capacity for steam kg/h Overpressure 10 %

Calculation: AD-Merkblatt A2

1400	15x25	20x32	25x40	32x50	40x65	50x80	65x100	80x125	100x150	125x200	150x200	200x250
Diam (mm)	16	18	23,8	29,5	36	46	60	72	90	105	125	153
Area(mm ²)	201	254	445	683	1.018	1.662	2.827	4.071	6.362	8.659	12.272	18.385
Set gauge pressure (bar)												
0,5	109	138	241	370	552	901	1.533	2.207	3.448	4.694	6.652	9.966
1	148	187	327	502	748	1.221	2.076	2.990	4.672	6.359	9.013	13.502
1,5	186	236	412	633	943	1.540	2.620	3.773	5.896	8.025	11.373	17.039
2	223	282	492	757	1.127	1.840	3.130	4.507	7.042	9.586	13.585	20.353
2,5	261	330	577	887	1.320	2.156	3.668	5.282	8.253	11.233	15.920	23.851
3	296	374	655	1.006	1.498	2.446	4.161	5.992	9.362	12.743	18.060	27.056
3,5	332	420	735	1.128	1.681	2.744	4.668	6.722	10.503	14.296	20.261	30.355
4	366	463	809	1.243	1.851	3.023	5.143	7.406	11.571	15.750	22.321	33.441
4,5	403	510	892	1.370	2.040	3.331	5.667	8.160	12.750	17.354	24.595	36.847
5	438	554	969	1.489	2.217	3.620	6.158	8.868	13.856	18.859	26.728	40.043
5,5	475	601	1.051	1.615	2.404	3.926	6.679	9.618	15.028	20.455	28.989	43.431
6	512	648	1.133	1.741	2.592	4.232	7.200	10.368	16.200	22.050	31.251	46.819
6,5	549	695	1.215	1.866	2.780	4.538	7.721	11.119	17.373	23.646	33.512	
7	586	742	1.297	1.992	2.967	4.845	8.242	11.869	18.545	25.242	35.774	
7,5	623	789	1.379	2.118	3.155	5.151	8.763	12.619	19.718	26.838	38.035	
8	660	836	1.461	2.244	3.342	5.457	9.284	13.370	20.890	28.434	40.297	
8,5	697	882	1.543	2.370	3.530	5.763	9.805	14.120	22.062	30.029	42.558	
9	727	920	1.608	2.470	3.679	6.007	10.220	14.716	22.994	31.297	44.356	
9,5	763	966	1.689	2.595	3.865	6.310	10.735	15.459	24.154	32.877	46.594	
10	800	1.013	1.770	2.720	4.050	6.613	11.251	16.201	25.314	34.456	48.832	
11	869	1.100	1.923	2.954	4.399	7.182	12.219	17.595	27.492	37.420		
12	942	1.192	2.084	3.202	4.768	7.785	13.245	19.073	29.801	40.562		
13	1.015	1.284	2.245	3.450	5.138	8.388	14.271	20.550	32.110	43.705		
14	1.087	1.377	2.407	3.698	5.507	8.991	15.297	22.028	34.418	46.847		
15	1.160	1.469	2.568	3.946	5.876	9.594	16.323	23.505	36.727	49.989		
16	1.233	1.561	2.730	4.194	6.246	10.197	17.349	24.982	39.035	53.131		
17	1.306	1.654	2.891	4.442	6.615	10.800	18.375	26.460	41.344			
18	1.379	1.746	3.053	4.690	6.984	11.403	19.401	27.937	43.652			
19	1.452	1.838	3.214	4.938	7.354	12.007	20.427	29.415	45.961			
20	1.525	1.931	3.376	5.186	7.723	12.610	21.453	30.892	48.269			
21	1.598	2.023	3.537	5.434	8.092	13.213	22.479	32.370	50.578			
22	1.671	2.115	3.698	5.682	8.462	13.816	23.505	33.847	52.886			
23	1.744	2.208	3.860	5.930	8.831	14.419	24.531	35.325	55.195			
24	1.817	2.300	4.021	6.178	9.201	15.022	25.557	36.802	57.503			
25	1.890	2.392	4.183	6.426	9.570	15.625	26.583	38.280				
26	1.963	2.485	4.344	6.674	9.939	16.228	27.609	39.757				
27	2.036	2.577	4.506	6.922	10.309	16.831	28.635	41.235				
28	2.109	2.669	4.667	7.170	10.678	17.434	29.661	42.712				
29	2.182	2.762	4.828	7.418	11.047	18.037	30.687	44.189				
30	2.255	2.854	4.990	7.666	11.417	18.640	31.713	45.667				
31	2.327	2.947	5.151	7.914	11.786	19.243	32.739	47.144				
32	2.400	3.039	5.313	8.162	12.155	19.846	33.765	48.622				



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT STOOM fig 1400 PN 64-160

SERIE 1400 PN-64/100

Technical sheet

Capacity for steam kg/h Overpressure 10 %

Calculation: AD-Merkblatt A2

1400 PN-64	15x25			25x50	32x50	40x65	50x80		65x100
1400 PN-100	20x32		25x50	32x50	40x65			65x100	
Diam (mm)	16	13	16	20	23,8	26	32	39	48
Area(mm ²)	201	133	201	314	445	531	804	1.195	1.810
Set gauge									
pressure (bar)									
33	2.442	1.612	2.443	3.817	5.405	6.450	9.770	14.512	21.983
34	2.514	1.660	2.515	3.929	5.564	6.640	10.058	14.940	22.631
35	2.586	1.708	2.587	4.042	5.723	6.830	10.347	15.368	23.280
36	2.658	1.755	2.659	4.154	5.883	7.021	10.635	15.796	23.928
37	2.723	1.798	2.724	4.256	6.027	7.192	10.895	16.183	24.514
38	2.795	1.846	2.796	4.368	6.186	7.382	11.182	16.610	25.161
39	2.867	1.893	2.867	4.480	6.345	7.572	11.470	17.037	25.807
40	2.938	1.940	2.939	4.593	6.504	7.762	11.757	17.464	26.454
41	3.010	1.988	3.011	4.705	6.663	7.951	12.045	17.891	27.100
42	3.082	2.035	3.083	4.817	6.822	8.141	12.332	18.317	27.747
43	3.154	2.083	3.155	4.929	6.981	8.331	12.619	18.744	28.394
44	3.226	2.130	3.227	5.042	7.140	8.521	12.907	19.171	29.040
45	3.298	2.178	3.299	5.154	7.299	8.710	13.194	19.598	29.687
46	3.369	2.225	3.370	5.266	7.458	8.900	13.482	20.025	30.334
47	3.441	2.272	3.442	5.379	7.617	9.090	13.769	20.452	30.980
48	3.513	2.320	3.514	5.491	7.776	9.279	14.056	20.879	31.627
49	3.585	2.367	3.586	5.603	7.934	9.469	14.344	21.306	32.274
50	3.657	2.415	3.658	5.715	8.093	9.659	14.631	21.733	32.920
52	3.820	2.522	3.821	5.970	8.454	10.090	15.284	22.702	34.388
54	3.964	2.618	3.965	6.196	8.774	10.471	15.861	23.560	35.688
56	4.109	2.713	4.110	6.422	9.094	10.852	16.439	24.418	36.988
58	4.253	2.808	4.254	6.647	9.413	11.234	17.017	25.276	38.288
60	4.397	2.904	4.399	6.873	9.733	11.615	17.595	26.134	39.588
62	4.542	2.999	4.543	7.099	10.052	11.997	18.172	26.992	40.888
64	4.686	3.094	4.688	7.324	10.372	12.378	18.750	27.850	42.188
66	4.831	3.190	4.832	7.550	10.691	12.759	19.328	28.708	43.487
68	4.975	3.285	4.976	7.776	11.011	13.141	19.905	29.567	44.787
70	5.146	3.398	5.147	8.042	11.389	13.591	20.588	30.581	46.324
72	5.291	3.494	5.292	8.269	11.710	13.975	21.169	31.443	47.630
74	5.436	3.590	5.437	8.496	12.031	14.358	21.750	32.306	48.937
76	5.581	3.685	5.583	8.723	12.352	14.742	22.330	33.168	50.243
78	5.726	3.781	5.728	8.950	12.674	15.125	22.911		
80	5.902	3.897	5.903	9.224	13.062	15.588	23.613		
82	6.047	3.993	6.049	9.452	13.385	15.973	24.196		
84	6.193	4.090	6.195	9.680	13.708	16.359	24.780		
86	6.339	4.186	6.341	9.908	14.030	16.744	25.364		
88	6.485	4.282	6.487	10.136	14.353				
90	6.631	4.379	6.633	10.364	14.676				
94	6.923	4.571	6.925	10.820					
98	7.214	4.764	7.216	11.276					
100	7.398	4.886	7.401	11.563					



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT LUCHT fig 902 PN 25

Serie 800 PN-25

Data Sheet

Calculation: AD-Merkblatt A 2

Air Flow capacity Kg/h 0 °C 1013 mbar Overpressure del 10 %

800	1/2 x 3/4 3/4 x 3/4	1/2 x 1	3/4 x 1 3/4 x 11/4	1 x 1 1 x 11/4	1 1/4 x 1 1/4	1 1/2 x 2	2 x 2
Diam (mm)	11,5	13	14	16	18	28	32
Área(mm²)	104	133	154	201	254	616	804
Presión							
en bar eff.							
0,5	67	86	100	130	165	398	520
1	91	117	135	177	224	541	707
1,5	115	147	171	223	283	684	894
2	140	178	207	270	342	827	1.081
2,5	164	209	243	317	401	970	1.267
3	188	240	278	364	460	1.114	1.454
3,5	212	271	314	410	519	1.257	1.641
4	236	302	350	457	578	1.400	1.828
4,5	260	333	386	504	638	1.543	2.015
5	284	363	421	550	697	1.686	2.202
5,5	309	394	457	597	756	1.829	2.389
6	333	425	493	644	815	1.972	2.576
6,5	357	456	529	691	874	2.115	2.763
7	381	487	565	737	933	2.258	2.950
7,5	405	518	600	784	992	2.401	3.136
8	429	548	636	831	1.052	2.544	3.323
8,5	453	579	672	878	1.111	2.687	3.510
9	477	610	708	924	1.170	2.831	3.697
9,5	502	641	743	971	1.229	2.974	3.884
10	526	672	779	1.018	1.288	3.117	4.071
11	574	734	851	1.111	1.406	3.403	4.445
12	622	795	922	1.205	1.525	3.689	4.818
13	671	857	994	1.298	1.643	3.975	5.192
14	719	919	1.065	1.392	1.761	4.261	5.566
15	767	980	1.137	1.485	1.879	4.548	5.940
16	815	1.042	1.208	1.578	1.998	4.834	6.314
17	864	1.104	1.280	1.672	2.116	5.120	6.687
18	912	1.165	1.352	1.765	2.234	5.406	7.061
19	960	1.227	1.423	1.859	2.352	5.692	7.435
20	1.009	1.289	1.495	1.952	2.471	5.979	7.809
21	1.057	1.350	1.566	2.046	2.589	6.265	8.183
22	1.105	1.412	1.638	2.139	2.707	6.551	8.556
23	1.153	1.474	1.709	2.233	2.826	6.837	8.930
24	1.202	1.536	1.781	2.326	2.944	7.123	9.304
25	1.250	1.597	1.852	2.419	3.062	7.409	9.678



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT LUCHT fig 1216 PN 16-40

SERIE 1216 PN-16/40

Data Sheet

Calculation: AD-Merkblatt A 2

Air Flow Capacity Kg/h 0 °C 1013 mbar overpressure 10 %

1216	1/2 x 3/4 1/2 x 1	3/4x3/4 3/4 x1 3/4 x 1 1/4	1 x 1 1 x 1 1/4	11/4 x 11/4
Diam (mm)	13	14	16	18
Área(mm²)	133	154	201	254
Presión en bar eff.				
0,5	87	101	132	167
1	118	137	178	226
1,5	149	172	225	285
2	179	208	272	344
2,5	210	244	319	403
3	241	280	365	462
3,5	272	315	412	521
4	303	351	459	581
4,5	334	387	505	640
5	365	423	552	699
5,5	395	459	599	758
6	426	494	646	817
6,5	457	530	692	876
7	488	566	739	935
7,5	519	602	786	995
8	550	637	833	1.054
8,5	580	673	879	1.113
9	611	709	926	1.172
9,5	642	745	973	1.231
10	673	781	1.019	1.290
11	735	852	1.113	1.409
12	796	924	1.206	1.527
13	858	995	1.300	1.645
14	920	1.067	1.393	1.763
15	981	1.138	1.487	1.882
16	1.043	1.210	1.580	2.000
17	1.105	1.281	1.674	2.118
18	1.167	1.353	1.767	2.237
19	1.228	1.424	1.861	2.355
20	1.290	1.496	1.954	2.473
21	1.352	1.568	2.047	2.591
22	1.413	1.639	2.141	2.710
23	1.475	1.711	2.234	2.828
24	1.537	1.782	2.328	2.946
25	1.598	1.854	2.421	3.064
26	1.660	1.925	2.515	3.183
27	1.722	1.997	2.608	3.301
28	1.784	2.068	2.702	3.419
29	1.845	2.140	2.795	3.538
30	1.907	2.212	2.889	3.656
31	1.969	2.283	2.982	3.774
32	2.030	2.355	3.075	3.892
33	2.092	2.426	3.169	4.011
34	2.154	2.498	3.262	4.129
35	2.215	2.569	3.356	4.247
36	2.277	2.641	3.449	4.365
37	2.339	2.712	3.543	4.484
38	2.400	2.784	3.636	4.602
39	2.462	2.855	3.730	4.720
40	2.524	2.927	3.823	4.839



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT LUCHT fig 1416 PN 16-40

SERIE 1416 PN-16/40

data sheet

Calculation: AD-Merkblatt A 2

Air Flow capacity Kg/h 0 °C 1013 mbar Overpressure del 10 %

1416	1x1	1x11/2	11/4x11/2	11/2x11/2	11/4x2	11/2x2	2 x 2	2 x 21/2 2 x 3 21/2x21/2 21/2x3 3x3	21/2x4	3 x 4 4 x 4
Diam (mm)	18	23,8	23,8	23,8	29,5	36	46	46	55	60
Área(mm ²)	254	445	445	445	683	1.018	1.662	1.662	2.376	2.827
Presión en bar eff.										
0,5	191	334	334	334	513	764	1.247	1.247	1.783	1.929
1	259	452	452	452	695	1.035	1.690	1.690	2.416	2.613
1,5	326	571	571	571	877	1.306	2.132	2.132	3.048	3.298
2	394	689	689	689	1.059	1.577	2.575	2.575	3.681	3.982
2,5	462	808	808	808	1.241	1.848	3.017	3.017	4.314	4.667
3	530	926	926	926	1.423	2.119	3.460	3.460	4.946	5.351
3,5	598	1.045	1.045	1.045	1.605	2.390	3.902	3.902	5.579	6.036
4	665	1.163	1.163	1.163	1.787	2.661	4.345	4.345	6.212	6.720
4,5	733	1.282	1.282	1.282	1.969	2.932	4.788	4.788	6.844	7.405
5	801	1.400	1.400	1.400	2.151	3.203	5.230	5.230	7.477	8.089
5,5	869	1.519	1.519	1.519	2.333	3.474	5.673	5.673	8.110	8.774
6	936	1.637	1.637	1.637	2.515	3.745	6.115	6.115	8.742	9.458
6,5	1.004	1.755	1.755	1.755	2.697	4.016	6.558	6.558	9.375	10.143
7	1.072	1.874	1.874	1.874	2.879	4.288	7.000	7.000	10.008	10.827
7,5	1.140	1.992	1.992	1.992	3.061	4.559	7.443	7.443	10.640	11.512
8	1.207	2.111	2.111	2.111	3.243	4.830	7.885	7.885	11.273	12.196
8,5	1.275	2.229	2.229	2.229	3.425	5.101	8.328	8.328	11.906	12.881
9	1.343	2.348	2.348	2.348	3.607	5.372	8.771	8.771	12.538	13.565
9,5	1.411	2.466	2.466	2.466	3.789	5.643	9.213	9.213	13.171	14.249
10	1.478	2.585	2.585	2.585	3.971	5.914	9.656	9.656	13.804	14.934
11	1.614	2.822	2.822	2.822	4.335	6.456	10.541	10.541	15.069	16.303
12	1.750	3.059	3.059	3.059	4.699	6.998	11.426	11.426	16.334	17.672
13	1.885	3.296	3.296	3.296	5.063	7.540	12.311	12.311	17.599	19.041
14	2.021	3.532	3.532	3.532	5.427	8.082	13.196	13.196	18.865	20.410
15	2.156	3.769	3.769	3.769	5.791	8.624	14.081	14.081	20.130	21.779
16	2.292	4.006	4.006	4.006	6.155	9.166	14.966	14.966	21.395	23.148
17	2.427	4.243	4.243	4.243	6.519	9.709	15.851	15.851	22.661	24.517
18	2.563	4.480	4.480	4.480	6.883	10.251	16.736	16.736	23.926	25.885
19	2.698	4.717	4.717	4.717	7.247	10.793	17.621	17.621	25.191	27.254
20	2.834	4.954	4.954	4.954	7.611	11.335	18.507	18.507	26.457	28.623
21	2.969	5.191	5.191	5.191	7.975	11.877	19.392	19.392	27.722	29.992
22	3.105	5.428	5.428	5.428	8.339	12.419	20.277	20.277	28.987	31.361
23	3.240	5.665	5.665	5.665	8.703	12.961	21.162	21.162	30.253	32.730
24	3.376	5.902	5.902	5.902	9.067	13.503	22.047	22.047	31.518	34.099
25	3.511	6.139	6.139	6.139	9.431	14.045	22.932	22.932	32.783	35.468
26	3.647	6.376	6.376	6.376	9.795	14.587	23.817	23.817	34.049	36.837
27	3.782	6.613	6.613	6.613	10.159	15.130	24.702	24.702	35.314	38.206
28	3.918	6.850	6.850	6.850	10.523	15.672	25.587	25.587	36.579	39.575
29	4.053	7.087	7.087	7.087	10.887	16.214	26.472	26.472	37.845	40.944
30	4.189	7.323	7.323	7.323	11.251	16.756	27.358	27.358	39.110	42.313
31	4.324	7.560	7.560	7.560	11.615	17.298	28.243	28.243	40.375	43.682
32	4.460	7.797	7.797	7.797	11.979	17.840	29.128	29.128	41.641	45.051
33	4.596	8.034	8.034	8.034	12.343	18.382	30.013	30.013	42.906	46.420
34	4.731	8.271	8.271	8.271	12.707	18.924	30.898	30.898	44.171	47.789
35	4.867	8.508	8.508	8.508	13.071	19.466	31.783	31.783	45.437	49.157
36	5.002	8.745	8.745	8.745	13.435	20.008	32.668	32.668	46.702	50.526
37	5.138	8.982	8.982	8.982	13.799	20.551	33.553	33.553	47.967	51.895
38	5.273	9.219	9.219	9.219	14.163	21.093	34.438	34.438	49.232	53.264
39	5.409	9.456	9.456	9.456	14.528	21.635	35.323	35.323	50.498	54.633
40	5.544	9.693	9.693	9.693	14.892	22.177	36.209	36.209	51.763	56.002



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT LUCHT fig 1416 PN 64-160

SERIE 1416 PN-64/100

Data sheet

Calculation: AD-Merkblatt A 2

Air Flow capacity Kg/h 0 °C 1013 mbar Overpressure del 10 %

1416 PN-64	1/2X1			1X1	1X11/2	11/4X2		11/2X21/2	2X3			21/2X4
1416 PN-100	3/4X1	1X1		1X11/2	11/4X2		11/2X21/2	2X3			21/2X4	
Diam (mm)	14	14	14	16	18	20	23,8	26	29,5	32	36	39
Área(mm2)	154	154	154	201	254	314	445	531	683	804	1.018	1.195
Presión												
en bar eff.												
41	3.437	3.437	3.437	4.486	5.669	7.009	9.933	11.852	15.245	17.946	22.722	26.673
42	3.519	3.519	3.519	4.593	5.805	7.176	10.170	12.135	15.609	18.374	23.264	27.309
43	3.601	3.601	3.601	4.701	5.940	7.343	10.407	12.418	15.972	18.802	23.807	27.946
44	3.683	3.683	3.683	4.808	6.075	7.510	10.644	12.701	16.336	19.230	24.349	28.582
45	3.765	3.765	3.765	4.915	6.211	7.678	10.881	12.983	16.700	19.659	24.891	29.219
46	3.847	3.847	3.847	5.022	6.346	7.845	11.118	13.266	17.064	20.087	25.433	29.855
47	3.929	3.929	3.929	5.129	6.481	8.012	11.355	13.549	17.427	20.515	25.975	30.492
48	4.011	4.011	4.011	5.236	6.616	8.179	11.592	13.832	17.791	20.943	26.518	31.128
49	4.094	4.094	4.094	5.343	6.752	8.347	11.829	14.115	18.155	21.371	27.060	31.765
50	4.176	4.176	4.176	5.450	6.887	8.514	12.066	14.397	18.519	21.800	27.602	32.401
51	4.258	4.258	4.258	5.557	7.022	8.681	12.303	14.680	18.883	22.228	28.144	33.038
52	4.340	4.340	4.340	5.664	7.157	8.848	12.540	14.963	19.246	22.656	28.686	33.674
53	4.422	4.422	4.422	5.771	7.293	9.015	12.777	15.246	19.610	23.084	29.228	34.310
54	4.504	4.504	4.504	5.878	7.428	9.183	13.014	15.529	19.974	23.512	29.771	34.947
55	4.586	4.586	4.586	5.985	7.563	9.350	13.251	15.811	20.338	23.941	30.313	35.583
56	4.668	4.668	4.668	6.092	7.699	9.517	13.488	16.094	20.701	24.369	30.855	36.220
57	4.750	4.750	4.750	6.199	7.834	9.684	13.725	16.377	21.065	24.797	31.397	36.856
58	4.832	4.832	4.832	6.306	7.969	9.852	13.962	16.660	21.429	25.225	31.939	37.493
59	4.914	4.914	4.914	6.413	8.104	10.019	14.199	16.943	21.793	25.653	32.482	38.129
60	4.996	4.996	4.996	6.520	8.240	10.186	14.436	17.226	22.156	26.082	33.024	38.766
62	5.160	5.160	5.160	6.735	8.510	10.521	14.910	17.791	22.884	26.938	34.108	40.038
64	5.324	5.324	5.324	6.949	8.781	10.855	15.384	18.357	23.611	27.794	35.192	41.311
66	5.488	5.488	5.488	7.163	9.051	11.190	15.858	18.922	24.339	28.651	36.277	42.584
68	5.652	5.652	5.652	7.377	9.322	11.524	16.332	19.488	25.066	29.507	37.361	43.857
70	5.816	5.816	5.816	7.591	9.592	11.858	16.806	20.054	25.794	30.364	38.446	45.130
72	5.980	5.980	5.980	7.805	9.863	12.193	17.280	20.619	26.522	31.220	39.530	46.403
74	6.144	6.144	6.144	8.019	10.134	12.527	17.754	21.185	27.249	32.076	40.614	47.676
76	6.308	6.308	6.308	8.233	10.404	12.862	18.228	21.750	27.977	32.933	41.699	48.949
78	6.472	6.472	6.472	8.447	10.675	13.196	18.702	22.316	28.704	33.789	42.783	50.222
80	6.636	6.636	6.636	8.661	10.945	13.531	19.176	22.882	29.432	34.646	43.867	51.495
82	6.800	6.800	6.800	8.876	11.216	13.865	19.650	23.447	30.159	35.502		
84	6.964	6.964	6.964	9.090	11.486	14.200	20.124	24.013	30.887	36.359		
86	7.128	7.128	7.128	9.304	11.757	14.534	20.598	24.579	31.614	37.215		
88	7.292	7.292	7.292	9.518	12.028	14.869	21.072	25.144	32.342	38.071		
90	7.456	7.456	7.456	9.732	12.298	15.203	21.546	25.710				
94	7.784	7.784	7.784	10.160	12.839	15.872	22.494	26.841				
98	8.112	8.112	8.112	10.588	13.380	16.541	23.442					



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT LUCHT fig 1400 PN 16-40

SERIE 1400 PN-16/40

Data sheet

Calculation: AD-Merkblatt A 2

Air Flow capacity Kg/h 0 °C 1013 mbar Overpressure del 10 %

1400	15x25	20x32	25x40	32x50	40x65	50x80	65x100	80x125	100x150	125x200	150x200	200x250
Diam (mm)	16	18	23,8	29,5	36	46	60	72	90	105	125	153
Área(mm ²)	201	254	445	683	1.018	1.662	2.827	4.071	6.362	8.659	12.272	18.385
Presión en bar eff.												
0,5	151	191	334	513	764	1.247	2.122	3.055	4.774	6.498	9.209	13.797
1	204	259	452	695	1.035	1.690	2.875	4.140	6.468	8.804	12.477	18.693
1,5	258	326	571	877	1.306	2.132	3.628	5.224	8.162	11.110	15.745	23.589
2	311	394	689	1.059	1.577	2.575	4.381	6.308	9.856	13.416	19.013	28.485
2,5	365	462	808	1.241	1.848	3.017	5.134	7.392	11.550	15.721	22.281	33.381
3	418	530	926	1.423	2.119	3.460	5.886	8.476	13.245	18.027	25.549	38.277
3,5	472	598	1.045	1.605	2.390	3.902	6.639	9.561	14.939	20.333	28.817	43.173
4	526	665	1.163	1.787	2.661	4.345	7.392	10.645	16.633	22.639	32.085	48.068
4,5	579	733	1.282	1.969	2.932	4.788	8.145	11.729	18.327	24.945	35.352	52.964
5	633	801	1.400	2.151	3.203	5.230	8.898	12.813	20.021	27.251	38.620	57.860
5,5	686	869	1.519	2.333	3.474	5.673	9.651	13.898	21.715	29.556	41.888	62.756
6	740	936	1.637	2.515	3.745	6.115	10.404	14.982	23.409	31.862	45.156	67.652
6,5	793	1.004	1.755	2.697	4.016	6.558	11.157	16.066	25.103	34.168	48.424	
7	847	1.072	1.874	2.879	4.288	7.000	11.910	17.150	26.797	36.474	51.692	
7,5	900	1.140	1.992	3.061	4.559	7.443	12.663	18.234	28.491	38.780	54.960	
8	954	1.207	2.111	3.243	4.830	7.885	13.416	19.319	30.185	41.085	58.228	
8,5	1.007	1.275	2.229	3.425	5.101	8.328	14.169	20.403	31.879	43.391	61.495	
9	1.061	1.343	2.348	3.607	5.372	8.771	14.921	21.487	33.573	45.697	64.763	
9,5	1.114	1.411	2.466	3.789	5.643	9.213	15.674	22.571	35.267	48.003	68.031	
10	1.168	1.478	2.585	3.971	5.914	9.656	16.427	23.655	36.961	50.309	71.299	
11	1.275	1.614	2.822	4.335	6.456	10.541	17.933	25.824	40.350	54.920		
12	1.382	1.750	3.059	4.699	6.998	11.426	19.439	27.992	43.738	59.532		
13	1.489	1.885	3.296	5.063	7.540	12.311	20.945	30.161	47.126	64.143		
14	1.596	2.021	3.532	5.427	8.082	13.196	22.451	32.329	50.514	68.755		
15	1.703	2.156	3.769	5.791	8.624	14.081	23.956	34.497	53.902	73.367		
16	1.810	2.292	4.006	6.155	9.166	14.966	25.462	36.666	57.290	77.978		
17	1.917	2.427	4.243	6.519	9.709	15.851	26.968	38.834	60.678			
18	2.024	2.563	4.480	6.883	10.251	16.736	28.474	41.003	64.066			
19	2.131	2.698	4.717	7.247	10.793	17.621	29.980	43.171	67.455			
20	2.238	2.834	4.954	7.611	11.335	18.507	31.486	45.339	70.843			
21	2.345	2.969	5.191	7.975	11.877	19.392	32.992	47.508	74.231			
22	2.452	3.105	5.428	8.339	12.419	20.277	34.497	49.676	77.619			
23	2.559	3.240	5.665	8.703	12.961	21.162	36.003	51.845	81.007			
24	2.667	3.376	5.902	9.067	13.503	22.047	37.509	54.013	84.395			
25	2.774	3.511	6.139	9.431	14.045	22.932	39.015	56.181				
26	2.881	3.647	6.376	9.795	14.587	23.817	40.521	58.350				
27	2.988	3.782	6.613	10.159	15.130	24.702	42.027	60.518				
28	3.095	3.918	6.850	10.523	15.672	25.587	43.532	62.687				
29	3.202	4.053	7.087	10.887	16.214	26.472	45.038	64.855				
30	3.309	4.189	7.323	11.251	16.756	27.358	46.544	67.023				
31	3.416	4.324	7.560	11.615	17.298	28.243	48.050	69.192				
32	3.523	4.460	7.797	11.979	17.840	29.128	49.556	71.360				
33	3.630	4.596	8.034	12.343	18.382	30.013	51.062	73.529				
34	3.737	4.731	8.271	12.707	18.924	30.898	52.567	75.697				
35	3.844	4.867	8.508	13.071	19.466	31.783	54.073	77.865				
36	3.951	5.002	8.745	13.435	20.008	32.668	55.579	80.034				
37	4.058	5.138	8.982	13.799	20.551	33.553	57.085	82.202				
38	4.165	5.273	9.219	14.163	21.093	34.438	58.591					
39	4.272	5.409	9.456	14.528	21.635	35.323	60.097					
40	4.379	5.544	9.693	14.892	22.177	36.209	61.602					



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VEILIGHEIDSKLEP OVERSTORTVENTIEL CAPACITEIT LUCHT fig 1400 PN 64-160

SERIE 1400 PN-64/100

Data sheet

Calculation: AD-Merkblatt A 2

Air Flow capacity Kg/h 0 °C 1013 mbar Overpressure del 10 %

1400 PN-64				25x50	32x50	40x65	50x80		65x100
1400 PN-100	15x25 20x32		25x50	32x50	40x65			65x100	
Diam (mm)	13	13	16	20	23,8	26	32	39	48
Área(mm²)	133	133	201	314	445	531	804	1.195	1.810
Presión									
en bar eff.									
41	2.963	2.963	4.488	7.012	9.930	11.850	17.951	26.663	40.389
42	3.033	3.033	4.595	7.179	10.167	12.133	18.379	27.299	41.353
43	3.104	3.104	4.702	7.347	10.404	12.416	18.807	27.936	42.317
44	3.175	3.175	4.809	7.514	10.641	12.699	19.236	28.572	43.280
45	3.245	3.245	4.916	7.681	10.877	12.981	19.664	29.208	44.244
46	3.316	3.316	5.023	7.849	11.114	13.264	20.092	29.844	45.208
47	3.387	3.387	5.130	8.016	11.351	13.547	20.521	30.481	46.172
48	3.457	3.457	5.237	8.183	11.588	13.830	20.949	31.117	47.135
49	3.528	3.528	5.344	8.351	11.825	14.112	21.377	31.753	48.099
50	3.599	3.599	5.451	8.518	12.062	14.395	21.806	32.389	49.063
51	3.669	3.669	5.559	8.685	12.299	14.678	22.234	33.025	50.027
52	3.740	3.740	5.666	8.852	12.536	14.961	22.662	33.662	50.990
53	3.811	3.811	5.773	9.020	12.773	15.243	23.091	34.298	51.954
54	3.882	3.882	5.880	9.187	13.010	15.526	23.519	34.934	52.918
55	3.952	3.952	5.987	9.354	13.247	15.809	23.947	35.570	53.882
56	4.023	4.023	6.094	9.522	13.484	16.092	24.376	36.206	54.845
57	4.094	4.094	6.201	9.689	13.721	16.375	24.804	36.843	55.809
58	4.164	4.164	6.308	9.856	13.958	16.657	25.232	37.479	56.773
59	4.235	4.235	6.415	10.024	14.195	16.940	25.661	38.115	57.737
60	4.306	4.306	6.522	10.191	14.431	17.223	26.089	38.751	58.700
62	4.447	4.447	6.736	10.526	14.905	17.788	26.946	40.024	60.628
64	4.588	4.588	6.951	10.860	15.379	18.354	27.802	41.296	62.555
66	4.730	4.730	7.165	11.195	15.853	18.919	28.659	42.569	64.483
68	4.871	4.871	7.379	11.530	16.327	19.485	29.516	43.841	66.410
70	5.013	5.013	7.593	11.864	16.801	20.050	30.372	45.113	68.338
72	5.154	5.154	7.807	12.199	17.275	20.616	31.229	46.386	70.265
74	5.295	5.295	8.021	12.533	17.749	21.181	32.086	47.658	
76	5.437	5.437	8.236	12.868	18.222	21.747	32.942	48.931	
78	5.578	5.578	8.450	13.203	18.696	22.313	33.799	50.203	
80	5.720	5.720	8.664	13.537	19.170	22.878	34.656	51.476	
82	5.861	5.861	8.878	13.872	19.644	23.444	35.512		
84	6.002	6.002	9.092	14.207	20.118	24.009	36.369		
86	6.144	6.144	9.306	14.541	20.592	24.575	37.225		
88	6.285	6.285	9.521	14.876	21.066	25.140	38.082		
90	6.426	6.426	9.735	15.210	21.540	25.706			
94	6.709	6.709	10.163	15.880	22.487	26.837			
98	6.992	6.992	10.591	16.549	23.435				