

Saturated steam

Flow capacity (kg/h)
Overpressure 10%

		BSP/NPT							
		1/2" x 3/4"	1/2" x 1"	3/4" x 1"	1" x 1"	1" x 1 1/4"	1 1/4" x 1 1/4"	1 1/2" x 2"	2" x 2"
Set pressure (barg)	Temp. Saturated steam (°C)	Orifice (mm)							
		11,5	13	14	16	16	18	28	32
		Area (mm ²)							
		104	133	154	201	201	254	616	804
0,5	111	47	60	69	91	91	115	278	363
1	120	63	81	94	123	123	155	376	491
1,5	127	80	102	118	155	155	196	473	618
2	134	96	123	143	187	187	236	571	746
2,5	138	113	144	167	218	218	276	669	874
3	144	129	165	192	250	250	317	767	1.002
3,5	147	146	186	216	282	282	357	865	1.129
4	153	162	207	241	314	314	398	962	1.257
4,5	155	179	229	265	346	346	438	1.060	1.385
5	159	195	250	290	378	378	479	1.158	1.512
5,5	161	212	271	314	410	410	519	1.256	1.640
6	165	228	292	338	442	442	559	1.354	1.768
6,5	167	245	313	363	474	474	600	1.451	1.896
7	170	261	334	387	506	506	640	1.549	2.023
7,5	172	278	355	412	538	538	681	1.647	2.151
8	175	294	376	436	570	570	721	1.745	2.279
8,5	177	311	397	461	602	602	761	1.843	2.407
9	130	327	418	485	634	634	802	1.940	2.534
9,5	181	344	439	510	666	666	842	2.038	2.662
10	184	360	460	534	697	697	883	2.136	2.790
11	187	393	503	583	761	761	964	2.331	3.045
12	192	426	545	632	825	825	1.044	2.527	3.301
13	194	459	587	681	889	889	1.125	2.723	3.556
14	198	492	629	730	953	953	1.206	2.918	3.812
15	201	525	671	778	1.017	1.017	1.287	3.114	4.067
16	204	558	713	827	1.081	1.081	1.368	3.309	4.322
17	207	591	756	876	1.144	1.144	1.448	3.505	4.578
18	209	624	798	925	1.208	1.208	1.529	3.701	4.833

Calculation according: ISO EN: 4126-1

Saturated steam

Flow capacity (kg/h)
Overpressure 10%

		BSP/NPT							
		1/2" x 3/4"	1/2" x 1"	3/4" x 1"	1" x 1"	1" x 1 1/4"	1 1/4" x 1 1/4"	1 1/2" x 2"	2" x 2"
Set pressure (barg)	Temp. Saturated steam (°C)	Orifice (mm)							
		13	13	14	16	16	18	28	32
		Area (mm ²)							
		133	133	154	201	201	254	616	804
0,5	111	60	60	69	91	91	115	278	363
1	120	81	81	94	123	123	155	376	491
1,5	127	102	102	118	155	155	196	473	618
2	134	123	123	143	187	187	236	571	746
2,5	138	144	144	167	218	218	276	669	874
3	144	165	165	192	250	250	317	767	1.002
3,5	147	186	186	216	282	282	357	865	1.129
4	153	207	207	241	314	314	398	962	1.257
4,5	155	229	229	265	346	346	438	1.060	1.385
5	159	250	250	290	378	378	479	1.158	1.512
5,5	161	271	271	314	410	410	519	1.256	1.640
6	165	292	292	338	442	442	559	1.354	1.768
6,5	167	313	313	363	474	474	600	1.451	1.896
7	170	334	334	387	506	506	640	1.549	2.023
7,5	172	355	355	412	538	538	681	1.647	2.151
8	175	376	376	436	570	570	721	1.745	2.279
8,5	177	397	397	461	602	602	761	1.843	2.407
9	180	418	418	485	634	634	802	1.940	2.534
9,5	181	439	439	510	666	666	842	2.038	2.662
10	184	460	460	534	697	697	883	2.136	2.790
11	187	503	503	583	761	761	964	2.331	3.045
12	192	545	545	632	825	825	1.044	2.527	3.301
13	194	587	587	681	889	889	1.125	2.723	3.556
14	198	629	629	730	953	953	1.206	2.918	3.812
15	201	671	671	778	1.017	1.017	1.287	3.114	4.067
16	204	713	713	827	1.081	1.081	1.368	3.309	4.322
17	207	756	756	876	1.144	1.144	1.448	3.505	4.578
18	209	798	798	925	1.208	1.208	1.529	3.701	4.833
19	212	840	840	974	1.272	1.272	1.610	3.896	5.089
20	215	882	882	1.023	1.336	1.336	1.691	4.092	5.344
21	217	924	924	1.072	1.400	1.400	1.772	4.287	5.600
22	220	966	966	1.121	1.464	1.464	1.853	4.483	5.855
23	222	1.008	1.008	1.170	1.528	1.528	1.933	4.678	6.111
24	224	1.051	1.051	1.218	1.592	1.592	2.014	4.874	6.366
25	226	1.093	1.093	1.267	1.655	1.655	2.095	5.070	6.621
26	228	1.135	1.135	1.316	1.719	1.719	2.176	5.265	6.877
27	230	1.177	1.177	1.365	1.783	1.783	2.257	5.461	7.132
28	232	1.219	1.219	1.414	1.847	1.847	2.338	5.656	7.388
29	234	1.261	1.261	1.463	1.911	1.911	2.418	5.852	7.643
30	236	1.304	1.304	1.512	1.975	1.975	2.499	6.047	7.899
31	238	1.346	1.346	1.561	2.039	2.039	2.580	6.243	8.154
32	240	1.388	1.388	1.610	2.102	2.102	2.661	6.439	8.410

Calculation according: ISO EN: 4126-1

Saturated steam

Flow capacity (kg/h)
Overpressure 10%

		BSP/NPT						
		1" x 1 1/2"	1 1/4" x 1 1/2"	1 1/2" x 2"	2" x 2"	2" x 2 1/2"	2 1/2" x 2 1/2"	3" x 3"
Set pressure (barg)	Temp. Saturated steam (°C)	Orifice (mm)						
		22	23,8	36	40	46	46	46
		Area (mm ²)						
		380	445	1.018	1.257	1.662	1.662	1.662
0,5	111	200	234	535	660	873	873	873
1	120	270	316	723	892	1.180	1.180	1.180
1,5	127	340	398	911	1.124	1.487	1.487	1.487
2	134	410	480	1.099	1.357	1.794	1.794	1.794
2,5	138	481	562	1.287	1.589	2.101	2.101	2.101
3	144	551	645	1.475	1.821	2.408	2.408	2.408
3,5	147	621	727	1.663	2.053	2.715	2.715	2.715
4	153	691	809	1.851	2.286	3.023	3.023	3.023
4,5	155	762	891	2.039	2.518	3.330	3.330	3.330
5	159	832	974	2.227	2.750	3.637	3.637	3.637
5,5	161	902	1.056	2.416	2.982	3.944	3.944	3.944
6	165	972	1.138	2.604	3.214	4.251	4.251	4.251
6,5	167	1.043	1.220	2.792	3.447	4.558	4.558	4.558
7	170	1.113	1.302	2.980	3.679	4.865	4.865	4.865
7,5	172	1.183	1.385	3.168	3.911	5.172	5.172	5.172
8	175	1.253	1.467	3.356	4.143	5.480	5.480	5.480
8,5	177	1.324	1.549	3.544	4.376	5.787	5.787	5.787
9	180	1.394	1.631	3.732	4.608	6.094	6.094	6.094
9,5	181	1.464	1.713	3.920	4.840	6.401	6.401	6.401
10	184	1.534	1.796	4.109	5.072	6.708	6.708	6.708
11	187	1.604	1.878	4.297	5.304	7.015	7.015	7.015
12	192	1.675	1.960	4.485	5.537	7.322	7.322	7.322
13	194	1.745	2.042	4.673	5.770	7.629	7.629	7.629
14	198	1.815	2.125	4.861	6.001	7.937	7.937	7.937
15	201	1.885	2.207	5.049	6.234	8.244	8.244	8.244
16	204	1.955	2.289	5.237	6.466	8.551	8.551	8.551
17	207	2.025	2.371	5.425	6.699	8.858	8.858	8.858
18	209	2.095	2.453	5.613	6.930	9.165	9.165	9.165
19	212	2.165	2.535	5.801	7.163	9.472	9.472	9.472
20	215	2.235	2.617	5.989	7.395	9.779	9.779	9.779
21	217	2.305	2.699	6.177	7.628	10.086	10.086	10.086
22	220	2.375	2.781	6.365	7.860	10.393	10.393	10.393
23	222	2.445	2.863	6.553	8.093	10.700	10.700	10.700
24	224	2.515	2.945	6.741	8.325	11.007	11.007	11.007
25	226	2.585	3.027	6.929	8.558	11.314	11.314	11.314
26	228	2.655	3.109	7.117	8.790	11.621	11.621	11.621
27	230	2.725	3.191	7.305	9.023	11.928	11.928	11.928
28	232	2.795	3.273	7.493	9.255	12.235	12.235	12.235
29	234	2.865	3.355	7.681	9.488	12.542	12.542	12.542
30	236	2.935	3.437	7.869	9.720	12.849	12.849	12.849
31	238	3.005	3.519	8.057	9.953	13.156	13.156	13.156
32	240	3.075	3.601	8.245	10.185	13.463	13.463	13.463

Calculation according: ISO EN: 4126-1

Saturated steam

Flow capacity (kg/h)
Overpressure 10%

		BSP/NPT						
		1/2" x 1"	3/4" x 1"	1" x 1"	1"x1 1/2"	1 1/4"x2"	1 1/2"x2 1/2"	2 x 3"
Set pressure (barg)	Temp. Saturated steam (°C)	Orifice (mm)						
		13	14	14	16	18	23,8	26
		Area (mm ²)						
		133	154	154	201	254	445	531
33	241	1.664	1.930	1.930	2.521	3.190	5.578	6.656
34	242	1.713	1.987	1.987	2.595	3.284	5.742	6.853
35	243	1.762	2.044	2.044	2.669	3.378	5.906	7.049
36	244	1.811	2.101	2.101	2.744	3.472	6.071	7.245
37	245	1.860	2.158	2.158	2.818	3.567	6.235	7.441
38	247	1.909	2.214	2.214	2.892	3.661	6.400	7.637
39	248	1.958	2.271	2.271	2.967	3.755	6.564	7.834
40	250	2.007	2.328	2.328	3.041	3.849	6.729	8.030
42	254	2.106	2.442	2.442	3.190	4.037	7.057	8.422
44	257	2.204	2.556	2.556	3.338	4.225	7.386	8.815
46	259	2.302	2.670	2.670	3.487	4.413	7.715	9.207
48	261	2.400	2.783	2.783	3.635	4.601	8.044	9.600
50	264	2.498	2.897	2.897	3.784	4.789	8.373	9.992
52	265	2.596	3.011	3.011	3.933	4.977	8.702	10.385
54	266	2.694	3.125	3.125	4.081	5.165	9.031	10.777
56	269	2.792	3.239	3.239	4.230	5.354	9.359	11.170
58	273	2.891	3.352	3.352	4.379	5.542	9.688	11.562
60	275	2.989	3.466	3.466	4.527	5.730	10.017	11.955
62	278	3.087	3.580	3.580	4.676	5.918	10.346	
64	280	3.185	3.694	3.694	4.824	6.106	10.675	
66	281	3.283	3.807	3.807	4.973	6.294		
68	283	3.381	3.921	3.921	5.122	6.482		
70	286	3.479	4.035	4.035	5.270	6.670		

Calculation according: ISO EN: 4126-1

Saturated steam

Flow capacity (kg/h)
Overpressure 10%

		EN-1092-1											
		15 x 25	20 x 32	25 x 40	32 x 50	40 x 65	50 x 80	65x100	80x125	100x150	125x200	150x200	200x250
Set pressure (barg)	Temp. Saturated steam (°C)	Orifice (mm)											
		16	18	23,8	29,5	36	46	59,5	72	90	105	125	153
		Area (mm ²)											
		201	254	445	683	1.018	1.662	2.781	4.072	6.362	8.659	12.272	18.385
0,5	111	106	134	234	359	535	873	1.460	2.138	3.341	4.547	6.445	9.655
1	120	143	181	316	485	723	1.180	1.974	2.891	4.517	6.148	8.713	13.053
1,5	127	180	228	398	612	911	1.487	2.488	3.643	5.692	7.748	10.980	16.451
2	134	217	275	480	738	1.099	1.794	3.002	4.395	6.868	9.348	13.248	19.848
2,5	138	254	322	562	864	1.287	2.101	3.516	5.148	8.044	10.948	15.516	23.246
3	144	291	369	645	990	1.475	2.408	4.029	5.900	9.219	12.548	17.784	26.643
3,5	147	329	416	727	1.117	1.663	2.715	4.543	6.653	10.395	14.149	20.052	30.041
4	153	366	463	809	1.243	1.851	3.023	5.057	7.405	11.570	15.749	22.320	33.439
4,5	155	403	510	891	1.369	2.039	3.330	5.571	8.158	12.746	17.349	24.587	36.836
5	159	440	557	974	1.496	2.227	3.637	6.085	8.910	13.922	18.949	26.855	40.234
5,5	161	477	604	1.056	1.622	2.416	3.944	6.599	9.662	15.097	20.549	29.123	43.632
6	165	514	651	1.138	1.748	2.604	4.251	7.112	10.415	16.273	22.149	31.391	47.029
6,5	167	551	698	1.220	1.875	2.792	4.558	7.626	11.167	17.449	23.750	33.659	
7	170	589	745	1.302	2.001	2.980	4.865	8.140	11.920	18.624	25.350	35.927	
7,5	172	626	792	1.385	2.127	3.168	5.172	8.654	12.672	19.800	26.950	38.194	
8	175	663	839	1.467	2.254	3.356	5.480	9.168	13.424	20.976	28.550	40.462	
8,5	177	700	886	1.549	2.380	3.544	5.787	9.682	14.177	22.151	30.150	42.730	
9	130	737	933	1.631	2.506	3.732	6.094	10.195	14.929	23.327	31.751	44.998	
9,5	181	774	980	1.713	2.633	3.920	6.401	10.709	15.682	24.503	33.351	47.266	
10	184	812	1.027	1.796	2.759	4.109	6.708	11.223	16.434	25.678	34.951	49.534	
11	187	886	1.121	1.960	3.011	4.485	7.322	12.251	17.939	28.030	38.151		
12	192	960	1.215	2.125	3.264	4.861	7.937	13.278	19.444	30.381	41.352		
13	194	1.034	1.309	2.289	3.517	5.237	8.551	14.306	20.949	32.732	44.552		
14	198	1.109	1.403	2.453	3.769	5.613	9.165	15.334	22.453	35.083	47.752		
15	201	1.183	1.497	2.618	4.022	5.990	9.779	16.362	23.958	37.435	50.953		
16	204	1.257	1.591	2.782	4.275	6.366	10.393	17.389	25.463	39.786	54.153		
17	207	1.332	1.685	2.947	4.527	6.742	11.008	18.417	26.968	42.137			
18	209	1.406	1.780	3.111	4.780	7.118	11.622	19.445	28.473	44.489			
19	212	1.480	1.874	3.276	5.032	7.494	12.236	20.472	29.978	46.840			
20	215	1.555	1.968	3.440	5.285	7.871	12.850	21.500	31.482	49.191			
21	217	1.629	2.062	3.604	5.538	8.247	13.465	22.528	32.987	51.542			
22	220	1.703	2.156	3.769	5.790	8.623	14.079	23.555	34.492	53.894			
23	222	1.778	2.250	3.933	6.043	8.999	14.693	24.583	35.997	56.245			
24	224	1.852	2.344	4.098	6.295	9.375	15.307	25.611	37.502	58.596			
25	226	1.926	2.438	4.262	6.548	9.752	15.922	26.638	39.006				
26	228	2.001	2.532	4.427	6.801	10.128	16.536	27.666	40.511				
27	230	2.075	2.626	4.591	7.053	10.504	17.150	28.694	42.016				
28	232	2.149	2.720	4.755	7.306	10.880	17.764	29.721	43.521				
29	234	2.223	2.814	4.920	7.559	11.256	18.379	30.749	45.026				
30	236	2.298	2.908	5.084	7.811	11.633	18.993	31.777	46.531				
31	238	2.372	3.002	5.249	8.064	12.009	19.607	32.804	48.035				
32	240	2.446	3.096	5.413	8.316	12.385	20.221	33.832	49.540				

Calculation according: ISO EN: 4126-1

Saturated steam

Flow capacity (kg/h)
Overpressure 10%

		PN-63						PN-100					
		Flanges EN-1092-1						Flanges EN-1092-1					
		15 x 25	20 x 32	25 x 50	32 x 50	40 x 65	50 x 80	65 x 100	15 x 25	20 x 32	25 x 50	32 x 50	40 x 65
Set pressure (barg)	Temp. Saturated steam (°C)	Orifice (mm)						Orifice (mm)					
		13	20	23,8	26	32	48	13	16	20	23,8	32	39
		Area (mm ²)						Area (mm ²)					
		133	314	445	531	804	1.810	133	201	314	445	804	1.195
33	241	1.664	3.939	5.578	6.656	10.083	22.687	1.664	2.521	3.939	5.578	10.083	14.977
34	242	1.713	4.055	5.742	6.853	10.380	23.356	1.713	2.595	4.055	5.742	10.380	15.418
35	243	1.762	4.171	5.906	7.049	10.677	24.024	1.762	2.669	4.171	5.906	10.677	15.860
36	244	1.811	4.287	6.071	7.245	10.975	24.693	1.811	2.744	4.287	6.071	10.975	16.301
37	245	1.860	4.403	6.235	7.441	11.272	25.362	1.860	2.818	4.403	6.235	11.272	16.743
38	247	1.909	4.519	6.400	7.637	11.569	26.031	1.909	2.892	4.519	6.400	11.569	17.184
39	248	1.958	4.635	6.564	7.834	11.866	26.700	1.958	2.967	4.635	6.564	11.866	17.626
40	250	2.007	4.751	6.729	8.030	12.164	27.368	2.007	3.041	4.751	6.729	12.164	18.067
42	254	2.106	4.984	7.057	8.422	12.758	28.706	2.106	3.190	4.984	7.057	12.758	18.950
44	257	2.204	5.216	7.386	8.815	13.353	30.044	2.204	3.338	5.216	7.386	13.353	19.833
46	259	2.302	5.448	7.715	9.207	13.947	31.381	2.302	3.487	5.448	7.715	13.947	20.717
48	261							2.400	3.635	5.680	8.044	14.542	21.600
50	264							2.498	3.784	5.913	8.373	15.136	22.483
52	265							2.596	3.933	6.145	8.702	15.731	23.366
54	266							2.694	4.081	6.377	9.031	16.325	24.249
56	269							2.792	4.230	6.609	9.359	16.920	
58	273							2.891	4.379	6.841	9.688	17.514	
60	275							2.989	4.527	7.074	10.017	18.109	
62	278							3.087	4.676	7.306	10.346		
64	280							3.185	4.824	7.538	10.675		
66	281							3.283	4.973	7.770			
68	283							3.381	5.122	8.003			
70	286							3.479	5.270	8.235			

Calculation according: ISO EN: 4126-1

Saturated steam

Flow capacity (kg/h)
Overpressure 10%

		Flanges ANSI B16.5																
		1/2" x 1"	1/2" x 1"	3/4" x 1"	3/4" x 1"	1" x 1"	1" x 1"	1 1/2"x3"	2" x 3"	3" x 4"	3" x 4"	3" x 4"	4" x 6"	4" x 6"	4" x 6"	6"x 8"	6" x 8"	8" x 10"
		D	E	F	G	H	J	K	L	M	N	P	Q	R	T			
		Orifice (mm)																
		9,5	13	16	21	26	32,5	39	48	55	60	73	96	115	147			
		Area (mm ²)																
Set pressure (barg)	Temp. Saturated steam (°C)	71	133	201	346	531	830	1.195	1.810	2.376	2.827	4.185	7.238	10.387	16.972			
		Area (square inches)																
		0,11	0,196	0,307	0,503	0,785	1,287	1,838	2,586	3,6	4,34	6,38	11,05	16	26			
0,5	111	55	102	155	267	410	640	921	1.396	1.833	2.181	3.228	5.583	8.012	13.091			
1	120	74	138	210	361	554	865	1.246	1.887	2.477	2.948	4.364	7.548	10.831	17.697			
1,5	127	93	174	264	455	698	1.090	1.570	2.378	3.122	3.716	5.500	9.512	13.650	22.304			
2	134	112	210	319	549	842	1.315	1.894	2.869	3.767	4.483	6.636	11.477	16.470	26.911			
2,5	138	132	246	373	643	986	1.541	2.218	3.360	4.412	5.251	7.772	13.442	19.289	31.517			
3	144	151	283	428	737	1.130	1.766	2.543	3.852	5.057	6.018	8.908	15.406	22.108	36.124			
3,5	147	170	319	483	831	1.274	1.991	2.867	4.343	5.702	6.786	10.044	17.371	24.927	40.730			
4	153	189	355	537	925	1.418	2.216	3.191	4.834	6.347	7.553	11.180	19.336	27.747	45.337			
4,5	155	209	391	592	1.019	1.562	2.441	3.515	5.325	6.991	8.320	12.316	21.300	30.566	49.943			
5	159	228	427	646	1.113	1.706	2.666	3.840	5.816	7.636	9.088	13.453	23.265	33.385	54.550			
5,5	161	247	463	701	1.207	1.851	2.892	4.164	6.307	8.281	9.855	14.589	25.229	36.204	59.156			
6	165	266	499	755	1.301	1.995	3.117	4.488	6.799	8.926	10.623	15.725	27.194	39.024	63.763			
6,5	167	286	535	810	1.395	2.139	3.342	4.812	7.290	9.571	11.390	16.861	29.159	41.843	68.369			
7	170	305	571	865	1.489	2.283	3.567	5.137	7.781	10.216	12.158	17.997	31.123	44.662	72.976			
7,5	172	324	607	919	1.583	2.427	3.792	5.461	8.272	10.861	12.925	19.133	33.088	47.481				
8	175	343	643	974	1.677	2.571	4.017	5.785	8.763	11.505	13.692	20.269	35.053	50.301				
8,5	177	363	679	1.028	1.771	2.715	4.243	6.109	9.254	12.150	14.460	21.405	37.017	53.120				
9	130	382	715	1.083	1.865	2.859	4.468	6.434	9.745	12.795	15.227	22.541	38.982	55.939				
9,5	181	401	751	1.137	1.959	3.003	4.693	6.758	10.237	13.440	15.995	23.677	40.947	58.758				
10	184	420	787	1.192	2.053	3.148	4.918	7.082	10.728	14.085	16.762	24.813	42.911	61.578				
11	187	459	859	1.301	2.241	3.436	5.368	7.731	11.710	15.375	18.297	27.085	46.840	67.216				
12	192	497	931	1.410	2.429	3.724	5.819	8.379	12.692	16.664	19.832	29.357	50.770	72.855				
13	194	536	1.003	1.519	2.617	4.012	6.269	9.027	13.675	17.954	21.367	31.629	54.699	78.493				
14	198	574	1.075	1.629	2.805	4.300	6.719	9.676	14.657	19.244	22.902	33.901	58.628	84.132				
15	201	613	1.147	1.738	2.993	4.589	7.170	10.324	15.639	20.533	24.437	36.173	62.558	89.770				
16	204	651	1.219	1.847	3.181	4.877	7.620	10.973	16.622	21.823	25.971	38.445	66.487	95.409				
17	207	690	1.291	1.956	3.370	5.165	8.070	11.621	17.604	23.113	27.506	40.717	70.416					
18	209	728	1.363	2.065	3.558	5.453	8.521	12.270	18.586	24.403	29.041	42.989	74.345					
19	212	767	1.435	2.174	3.746	5.741	8.971	12.918	19.569	25.692	30.576	45.261	78.275					
20	215	805	1.507	2.283	3.934	6.030	9.421	13.567	20.551	26.982	32.111	47.533	82.204					
22	217	882	1.652	2.502	4.310	6.606	10.322	14.864	22.516	29.562	35.181	52.077	90.062					
24	220	959	1.796	2.720	4.686	7.183	11.223	16.161	24.480	32.141	38.250	56.621	97.921					
26	222	1.036	1.940	2.938	5.062	7.759	12.123	17.458	26.445	34.720	41.320	61.165	105.780					
28	224	1.113	2.084	3.157	5.438	8.335	13.024	18.755	28.410	37.300	44.390	65.709	113.638					
30	226	1.190	2.228	3.375	5.814	8.912	13.925	20.052	30.374	39.879	47.460	70.253						
32	228	1.267	2.372	3.593	6.190	9.488	14.825	21.349	32.339	42.459	50.529	74.797						
34	230	1.344	2.516	3.811	6.566	10.065	15.726	22.646	34.303	45.038	53.599	79.342						

Calculation according: ISO EN: 4126-1

Saturated steam

Flow capacity (kg/h)
Overpressure 10%

		Flanges ANSI B16.5																
		1/2" x 1"	1/2" x 1"	3/4" x 1"	3/4" x 1"	1" x 1"	1" x 1"	1" x 2"	1" x 2"	1 1/2" x 2"	1 1/2" x 3"	2" x 3"	3" x 4"	3" x 4"	4" x 6"	4" x 6"	4" x 6"	6" x 8"
		D	E	F	G	H	J	K	M	N	P	Q	Orifice (mm)					
		9,5	13	16	21	26	32,5	39	55	60	73	96	Area (mm ²)					
Set pressure (barg)	Temp. Saturated steam (°C)	71	133	201	346	531	830	1.195	2.376	2.827	4.185	7.238	Area (square inches)					
		0,11	0,196	0,307	0,503	0,785	1,287	1,838	3,6	4,34	6,38	11,05						
28	232	1.113	2.084	3.157	5.438	8.335	13.024	18.755	37.300	44.390	65.709	113.638						
29	234	1.151	2.156	3.266	5.626	8.624	13.474	19.403	38.590	45.925	67.981	117.567						
30	236	1.190	2.228	3.375	5.814	8.912	13.925	20.052	39.879	47.460	70.253	121.497						
31	238	1.228	2.300	3.484	6.002	9.200	14.375	20.700	41.169	48.994	72.525	125.426						
32	240	1.267	2.372	3.593	6.190	9.488	14.825	21.349	42.459	50.529	74.797	129.355						
33	241	1.305	2.444	3.702	6.378	9.777	15.276	21.997	43.748	52.064	77.070	133.284						
34	242	1.344	2.516	3.811	6.566	10.065	15.726	22.646	45.038	53.599	79.342	137.214						
35	243	1.382	2.588	3.921	6.754	10.353	16.176	23.294	46.328	55.134	81.614	141.143						
36	244	1.421	2.660	4.030	6.942	10.641	16.627	23.943	47.618	56.669	83.886	145.072						
37	245	1.459	2.732	4.139	7.130	10.929	17.077	24.591	48.907	58.204	86.158	149.001						
38	247	1.498	2.804	4.248	7.318	11.218	17.527	25.240	50.197	59.739	88.430	152.931						
39	248	1.536	2.876	4.357	7.506	11.506	17.978	25.888	51.487	61.273	90.702	156.860						
40	250	1.575	2.949	4.466	7.694	11.794	18.428	26.537	52.776	62.808	92.974	160.789						
41	252	1.613	3.021	4.576	7.882	12.082	18.878	27.185	54.066	64.343	95.246	164.719						
42	254	1.652	3.093	4.685	8.070	12.370	19.329	27.833	55.356	65.878	97.518	168.648						
43	255	1.690	3.165	4.794	8.258	12.659	19.779	28.482	56.646	67.413	99.790	172.577						
44	257	1.728	3.237	4.903	8.446	12.947	20.229	29.130	57.935	68.948	102.062	176.506						
45	258	1.767	3.309	5.012	8.634	13.235	20.680	29.779	59.225	70.483	104.334							
46	259	1.805	3.381	5.121	8.822	13.523	21.130	30.427	60.515	72.018	106.606							
47	260	1.844	3.453	5.230	9.010	13.812	21.580	31.076	61.804	73.552	108.878							
48	261	1.882	3.525	5.340	9.198	14.100	22.031	31.724	63.094	75.087								
49	263	1.921	3.597	5.449	9.386	14.388	22.481	32.373	64.384	76.622								
50	264	1.959	3.669	5.558	9.574	14.676	22.931	33.021	65.674	78.157								
51	265	1.998	3.741	5.667	9.762	14.964	23.382	33.670	66.963	79.692								
52	266	2.036	3.813	5.776	9.950	15.253	23.832	34.318	68.253									
53	267	2.075	3.885	5.885	10.138	15.541	24.282	34.967	69.543									
54	268	2.113	3.957	5.994	10.326	15.829	24.733	35.615	70.832									
55	269	2.152	4.029	6.104	10.514	16.117	25.183	36.264										
56	271	2.190	4.101	6.213	10.702	16.405	25.633	36.912										
57	273	2.229	4.173	6.322	10.890	16.694	26.084	37.561										

Calculation according: ISO EN: 4126-1

Saturated steam

Flow capacity (kg/h)
Overpressure 10%

		Flanges x BSP/NPT or Flanges x Flanges				
		1/2" x 3/4"	1/2" x 1"	3/4" x 3/4"	3/4" x 1"	1" x 1"
Set pressure (barg)	Temp. Saturated steam (°C)	Orifice (mm)				
		13	13	14	14	16
		Area (mm ²)				
		133	133	154	154	201
0,5	111	60	60	69	69	91
1	120	81	81	94	94	123
1,5	127	102	102	118	118	155
2	134	123	123	143	143	187
2,5	138	144	144	167	167	218
3	144	165	165	192	192	250
3,5	147	186	186	216	216	282
4	153	207	207	241	241	314
4,5	155	229	229	265	265	346
5	159	250	250	290	290	378
5,5	161	271	271	314	314	410
6	165	292	292	338	338	442
6,5	167	313	313	363	363	474
7	170	334	334	387	387	506
7,5	172	355	355	412	412	538
8	175	376	376	436	436	570
8,5	177	397	397	461	461	602
9	180	418	418	485	485	634
9,5	181	439	439	510	510	666
10	184	460	460	534	534	697
11	187	503	503	583	583	761
12	192	545	545	632	632	825
13	194	587	587	681	681	889
14	198	629	629	730	730	953
15	201	671	671	778	778	1.017
16	204	713	713	827	827	1.081
17	207	756	756	876	876	1.144
18	209	798	798	925	925	1.208
19	212	840	840	974	974	1.272
20	215	882	882	1.023	1.023	1.336
21	217	924	924	1.072	1.072	1.400
22	220	966	966	1.121	1.121	1.464
23	222	1.008	1.008	1.170	1.170	1.528
24	224	1.051	1.051	1.218	1.218	1.592
25	226	1.093	1.093	1.267	1.267	1.655
26	228	1.135	1.135	1.316	1.316	1.719
27	230	1.177	1.177	1.365	1.365	1.783
28	232	1.219	1.219	1.414	1.414	1.847
29	234	1.261	1.261	1.463	1.463	1.911
30	236	1.304	1.304	1.512	1.512	1.975
31	238	1.346	1.346	1.561	1.561	2.039
32	240	1.388	1.388	1.610	1.610	2.102

Calculation according: ISO EN: 4126-1

Saturated steam

Flow capacity (kg/h)

Overpressure 10%

		Clamp x BSP / NPT or Clamp x Clamp			
		15 x 1" 15 x 25	20 x 1" 20x 25	25 x 1" 25 x 25	40 x 2" 40 x 40
Set pressure (barg)	Temp. Saturated steam (°C)	Orifice (mm)			
		9,5	15	20	32
		Area (mm ²)			
		71	177	314	804
0,5	111	32	80	142	363
1	120	43	108	192	491
1,5	127	55	136	242	618
2	134	66	164	291	746
2,5	138	77	192	341	874
3	144	88	220	391	1.002
3,5	147	100	248	441	1.129
4	153	111	276	491	1.257
4,5	155	122	304	541	1.385
5	159	133	332	591	1.512
5,5	161	145	360	641	1.640
6	165	156	388	691	1.768
6,5	167	167	417	740	1.896
7	170	178	445	790	2.023
7,5	172	190	473	840	2.151
8	175	201	501	890	2.279

Calculation according: ISO EN: 4126-1