

## Air capacity

Flow capacity (kg/h)

Overpressure 10% Temperature 20° C

	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"
	Orifice (mm)							
Set pressure (barg)	11,5	13	14	16	16	18	28	32
	Area (mm <sup>2</sup> )							
	104	133	154	201	201	254	616	804
0,5	76	97	112	147	147	186	449	586
1	102	131	152	198	198	251	607	793
1,5	129	165	191	250	250	316	765	999
2	156	199	231	301	301	381	923	1.205
2,5	182	233	270	353	353	447	1.081	1.412
3	209	267	310	404	404	512	1.239	1.618
3,5	236	301	349	456	456	577	1.397	1.824
4	262	335	389	508	508	642	1.555	2.030
4,5	289	369	428	559	559	708	1.712	2.237
5	316	403	468	611	611	773	1.870	2.443
5,5	342	437	507	662	662	838	2.028	2.649
6	369	471	547	714	714	904	2.186	2.856
6,5	395	505	586	765	765	969	2.344	3.062
7	422	539	626	817	817	1.034	2.502	3.268
7,5	449	573	665	869	869	1.099	2.660	3.475
8	475	607	705	920	920	1.165	2.818	3.681
8,5	502	642	744	972	972	1.230	2.976	3.887
9	529	676	784	1.023	1.023	1.295	3.134	4.093
9,5	555	710	823	1.075	1.075	1.360	3.292	4.300
10	582	744	862	1.127	1.127	1.426	3.450	4.506
11	635	812	941	1.230	1.230	1.556	3.766	4.919
12	689	880	1.020	1.333	1.333	1.687	4.082	5.331
13	742	948	1.099	1.436	1.436	1.817	4.398	5.744
14	795	1.016	1.178	1.539	1.539	1.948	4.714	6.157
15	848	1.084	1.257	1.642	1.642	2.079	5.029	6.569
16	902	1.152	1.336	1.745	1.745	2.209	5.345	6.982
17	955	1.220	1.415	1.849	1.849	2.340	5.661	7.394
18	1.008	1.288	1.494	1.952	1.952	2.470	5.977	7.807
19	1.062	1.357	1.573	2.055	2.055	2.601	6.293	8.220
20	1.115	1.425	1.652	2.158	2.158	2.731	6.609	8.632
21	1.168	1.493	1.731	2.261	2.261	2.862	6.925	9.045
22	1.221	1.561	1.810	2.364	2.364	2.992	7.241	9.457
23	1.275	1.629	1.889	2.468	2.468	3.123	7.557	9.870
24	1.328	1.697	1.968	2.571	2.571	3.253	7.873	10.283
25	1.381	1.765	2.047	2.674	2.674	3.384	8.189	10.695

Calculation according EN 4126-1



# Air capacity

**Flow capacity (kg/h)  
Overpressure 10%**

**Temperature 20° C**

Set pressure (barg)	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"x1 1/4"	1 1/2" x 2"	2" x 2"
	Orifice (mm)							
	13	13	14	16	16	18	28	32
	Area (mm <sup>2</sup> )							
	133	133	154	201	201	254	616	804
0,5	97	97	112	147	147	186	449	586
1	131	131	152	198	198	251	607	793
1,5	165	165	191	250	250	316	765	999
2	199	199	231	301	301	381	923	1.205
2,5	233	233	270	353	353	447	1.081	1.412
3	267	267	310	404	404	512	1.239	1.618
3,5	301	301	349	456	456	577	1.397	1.824
4	335	335	389	508	508	642	1.555	2.030
4,5	369	369	428	559	559	708	1.712	2.237
5	403	403	468	611	611	773	1.870	2.443
5,5	437	437	507	662	662	838	2.028	2.649
6	471	471	547	714	714	904	2.186	2.856
6,5	505	505	586	765	765	969	2.344	3.062
7	539	539	626	817	817	1.034	2.502	3.268
7,5	573	573	665	869	869	1.099	2.660	3.475
8	607	607	705	920	920	1.165	2.818	3.681
8,5	642	642	744	972	972	1.230	2.976	3.887
9	676	676	784	1.023	1.023	1.295	3.134	4.093
9,5	710	710	823	1.075	1.075	1.360	3.292	4.300
10	744	744	862	1.127	1.127	1.426	3.450	4.506
11	812	812	941	1.230	1.230	1.556	3.766	4.919
12	880	880	1.020	1.333	1.333	1.687	4.082	5.331
13	948	948	1.099	1.436	1.436	1.817	4.398	5.744
14	1.016	1.016	1.178	1.539	1.539	1.948	4.714	6.157
15	1.084	1.084	1.257	1.642	1.642	2.079	5.029	6.569
16	1.152	1.152	1.336	1.745	1.745	2.209	5.345	6.982
17	1.220	1.220	1.415	1.849	1.849	2.340	5.661	7.394
18	1.288	1.288	1.494	1.952	1.952	2.470	5.977	7.807
19	1.357	1.357	1.573	2.055	2.055	2.601	6.293	8.220
20	1.425	1.425	1.652	2.158	2.158	2.731	6.609	8.632
21	1.493	1.493	1.731	2.261	2.261	2.862	6.925	9.045
22	1.561	1.561	1.810	2.364	2.364	2.992	7.241	9.457
23	1.629	1.629	1.889	2.468	2.468	3.123	7.557	9.870
24	1.697	1.697	1.968	2.571	2.571	3.253	7.873	10.283
25	1.765	1.765	2.047	2.674	2.674	3.384	8.189	10.695
26	1.833	1.833	2.126	2.777	2.777	3.515	8.504	11.108
27	1.901	1.901	2.205	2.880	2.880	3.645	8.820	11.520
28	1.969	1.969	2.284	2.983	2.983	3.776	9.136	11.933
29	2.038	2.038	2.363	3.086	3.086	3.906	9.452	12.346
30	2.106	2.106	2.442	3.190	3.190	4.037	9.768	12.758
31	2.174	2.174	2.521	3.293	3.293	4.167	10.084	13.171
32	2.242	2.242	2.600	3.396	3.396	4.298	10.400	13.584
33	2.310	2.310	2.679	3.499	3.499	4.428	10.716	13.996
34	2.378	2.378	2.758	3.602	3.602	4.559	11.032	14.409
35	2.446	2.446	2.837	3.705	3.705	4.690	11.348	14.821
36	2.514	2.514	2.916	3.808	3.808	4.820	11.664	15.234
37	2.582	2.582	2.995	3.912	3.912	4.951	11.979	15.647
38	2.650	2.650	3.074	4.015	4.015	5.081	12.295	16.059
39	2.718	2.718	3.153	4.118	4.118	5.212	12.611	16.472
40	2.787	2.787	3.232	4.221	4.221	5.342	12.927	16.884

Calculation according EN 4126-1



# Air capacity

**Model 1416  
PN-40**

**Flow capacity (kg/h)**

**Overpressure 10%**

**Temperature 20° C**

Set pressure (barg)	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"
	Orifice (mm)						
	22	23,8	36	40	46	46	46
	Area (mm <sup>2</sup> )						
	380	445	1.018	1.257	1.662	1.662	1.662
0,5	322	377	863	1.066	1.410	1.410	1.410
1	436	510	1.167	1.441	1.906	1.906	1.906
1,5	549	643	1.471	1.816	2.402	2.402	2.402
2	663	776	1.775	2.191	2.898	2.898	2.898
2,5	776	909	2.079	2.566	3.394	3.394	3.394
3	890	1.041	2.383	2.941	3.890	3.890	3.890
3,5	1.003	1.174	2.686	3.317	4.386	4.386	4.386
4	1.117	1.307	2.990	3.692	4.882	4.882	4.882
4,5	1.230	1.440	3.294	4.067	5.378	5.378	5.378
5	1.344	1.573	3.598	4.442	5.874	5.874	5.874
5,5	1.457	1.705	3.902	4.817	6.370	6.370	6.370
6	1.571	1.838	4.206	5.192	6.867	6.867	6.867
6,5	1.684	1.971	4.509	5.567	7.363	7.363	7.363
7	1.798	2.104	4.813	5.942	7.859	7.859	7.859
7,5	1.911	2.237	5.117	6.317	8.355	8.355	8.355
8	2.024	2.369	5.421	6.692	8.851	8.851	8.851
8,5	2.138	2.502	5.725	7.068	9.347	9.347	9.347
9	2.251	2.635	6.029	7.443	9.843	9.843	9.843
9,5	2.365	2.768	6.332	7.818	10.339	10.339	10.339
10	2.478	2.900	6.636	8.193	10.835	10.835	10.835
11	2.705	3.166	7.244	8.943	11.827	11.827	11.827
12	2.932	3.432	7.852	9.693	12.819	12.819	12.819
13	3.159	3.697	8.459	10.443	13.812	13.812	13.812
14	3.386	3.963	9.067	11.194	14.804	14.804	14.804
15	3.613	4.228	9.675	11.944	15.796	15.796	15.796
16	3.840	4.494	10.282	12.694	16.788	16.788	16.788
17	4.067	4.760	10.890	13.444	17.780	17.780	17.780
18	4.294	5.025	11.498	14.194	18.772	18.772	18.772
19	4.521	5.291	12.105	14.945	19.764	19.764	19.764
20	4.748	5.556	12.713	15.695	20.757	20.757	20.757
21	4.975	5.822	13.321	16.445	21.749	21.749	21.749
22	5.202	6.088	13.928	17.195	22.741	22.741	22.741
23	5.429	6.353	14.536	17.946	23.733	23.733	23.733
24	5.655	6.619	15.144	18.696	24.725	24.725	24.725
25	5.882	6.884	15.751	19.446	25.717	25.717	25.717
26	6.109	7.150	16.359	20.196	26.709	26.709	26.709
27	6.336	7.416	16.967	20.946	27.701	27.701	27.701
28	6.563	7.681	17.574	21.697	28.694	28.694	28.694
29	6.790	7.947	18.182	22.447	29.686	29.686	29.686
30	7.017	8.212	18.790	23.197	30.678	30.678	30.678
31	7.244	8.478	19.397	23.947	31.670	31.670	31.670
32	7.471	8.743	20.005	24.697	32.662	32.662	32.662
33	7.698	9.009	20.612	25.448	33.654	33.654	33.654
34	7.925	9.275	21.220	26.198	34.646	34.646	34.646
35	8.152	9.540	21.828	26.948	35.639	35.639	35.639
36	8.379	9.806	22.435	27.698	36.631	36.631	36.631
37	8.606	10.071	23.043	28.448	37.623	37.623	37.623
38	8.833	10.337	23.651	29.199	38.615	38.615	38.615
39	9.059	10.603	24.258	29.949	39.607	39.607	39.607
40	9.286	10.868	24.866	30.699	40.599	40.599	40.599

Calculation according EN 4126-1

# Air capacity

**Flow capacity (kg/h)**
**Overpressure 10%**
**Temperature 20° C**

Set pressure (barg)	BSP / NPT						
	1/2" x 1"	3/4" x 1"	1" x 1"	1" x 1 1/2"	1 1/4" x 2"	1 1/2" x 2 1/2"	2" x 3"
	Orifice (mm)						
	13	14	14	16	18	23,8	26
	Area (mm <sup>2</sup> )						
	133	154	154	201	254	445	531
<b>33</b>	2.688	3.117	3.117	4.072	5.153	9.009	10.752
<b>34</b>	2.767	3.209	3.209	4.192	5.305	9.275	11.069
<b>35</b>	2.846	3.301	3.301	4.312	5.457	9.540	11.385
<b>36</b>	2.926	3.393	3.393	4.432	5.609	9.806	11.702
<b>37</b>	3.005	3.485	3.485	4.552	5.761	10.071	12.019
<b>38</b>	3.084	3.577	3.577	4.672	5.913	10.337	12.336
<b>39</b>	3.163	3.669	3.669	4.792	6.065	10.603	12.653
<b>40</b>	3.243	3.761	3.761	4.912	6.217	10.868	12.970
<b>42</b>	3.401	3.944	3.944	5.152	6.520	11.399	13.604
<b>44</b>	3.560	4.128	4.128	5.392	6.824	11.931	14.238
<b>46</b>	3.718	4.312	4.312	5.632	7.128	12.462	14.872
<b>48</b>	3.876	4.496	4.496	5.872	7.432	12.993	15.506
<b>50</b>	4.035	4.680	4.680	6.112	7.736	13.524	16.140
<b>52</b>	4.193	4.863	4.863	6.352	8.040	14.055	16.774
<b>54</b>	4.352	5.047	5.047	6.592	8.343	14.586	17.408
<b>56</b>	4.510	5.231	5.231	6.832	8.647	15.118	18.042
<b>58</b>	4.669	5.415	5.415	7.072	8.951	15.649	18.676
<b>60</b>	4.827	5.599	5.599	7.312	9.255	16.180	19.310
<b>62</b>	4.986	5.782	5.782	7.553	9.559	16.711	19.943
<b>64</b>	5.144	5.966	5.966	7.793	9.863	17.242	20.577
<b>66</b>	5.303	6.150	6.150	8.033	10.166	17.774	21.211
<b>68</b>	5.461	6.334	6.334	8.273	10.470	18.305	21.845
<b>70</b>	5.620	6.518	6.518	8.513	10.774	18.836	22.479
<b>72</b>	5.778	6.701	6.701	8.753	11.078	19.367	23.113
<b>74</b>	5.937	6.885	6.885	8.993	11.382	19.898	23.747
<b>76</b>	6.095	7.069	7.069	9.233	11.686	20.429	24.381
<b>78</b>	6.254	7.253	7.253	9.473	11.989	20.961	25.015
<b>80</b>	6.412	7.437	7.437	9.713	12.293	21.492	25.649
<b>82</b>	6.571	7.620	7.620	9.953	12.597	22.023	
<b>84</b>	6.729	7.804	7.804	10.193	12.901	22.554	
<b>86</b>	6.888	7.988	7.988	10.433	13.205	23.085	
<b>88</b>	7.046	8.172	8.172	10.673	13.508	23.617	
<b>90</b>	7.205	8.356	8.356	10.913	13.812	24.148	
<b>92</b>	7.363	8.539	8.539	11.154	14.116		
<b>94</b>	7.522	8.723	8.723	11.394	14.420		
<b>96</b>	7.680	8.907	8.907	11.634	14.724		
<b>98</b>	7.838	9.091	9.091	11.874	15.028		
<b>100</b>	7.997	9.275	9.275	12.114	15.331		

**Calculation according EN 4126-1**

# Air capacity

**Flow capacity (kg/h)**

**Overpressure 10%**

**Temperature 20° C**

Set pressure (barg)	Flanges 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
	Orifice (mm)											
	16	18	23,8	29,5	36	46	59,5	72	90	105	125	153
Area (mm <sup>2</sup> )												
	201	254	445	683	1.018	1.662	2.781	4.072	6.362	8.659	12.272	18.385
0,5	171	216	377	580	863	1.410	2.359	3.454	5.396	7.345	10.410	15.596
1	231	292	510	784	1.167	1.906	3.189	4.669	7.295	9.930	14.073	21.084
1,5	291	368	643	988	1.471	2.402	4.019	5.884	9.194	12.515	17.736	26.572
2	351	444	776	1.192	1.775	2.898	4.849	7.100	11.093	15.099	21.399	32.060
2,5	411	520	909	1.396	2.079	3.394	5.678	8.315	12.992	17.684	25.062	37.548
3	471	596	1.041	1.600	2.383	3.890	6.508	9.530	14.891	20.269	28.725	43.036
3,5	531	672	1.174	1.804	2.686	4.386	7.338	10.746	16.790	22.853	32.388	48.524
4	591	748	1.307	2.008	2.990	4.882	8.168	11.961	18.689	25.438	36.052	54.011
4,5	651	824	1.440	2.212	3.294	5.378	8.998	13.176	20.588	28.023	39.715	59.499
5	711	899	1.573	2.416	3.598	5.874	9.828	14.392	22.487	30.607	43.378	64.987
5,5	771	975	1.705	2.620	3.902	6.370	10.658	15.607	24.386	33.192	47.041	70.475
6	831	1.051	1.838	2.824	4.206	6.867	11.488	16.822	26.285	35.777	50.704	75.963
6,5	891	1.127	1.971	3.028	4.509	7.363	12.318	18.038	28.184	38.361	54.367	
7	951	1.203	2.104	3.232	4.813	7.859	13.148	19.253	30.083	40.946	58.030	
7,5	1.011	1.279	2.237	3.436	5.117	8.355	13.978	20.468	31.982	43.531	61.693	
8	1.071	1.355	2.369	3.640	5.421	8.851	14.808	21.684	33.881	46.115	65.356	
8,5	1.131	1.431	2.502	3.844	5.725	9.347	15.638	22.899	35.780	48.700	69.019	
9	1.191	1.507	2.635	4.048	6.029	9.843	16.468	24.114	37.679	51.285	72.682	
9,5	1.251	1.583	2.768	4.252	6.332	10.339	17.298	25.330	39.578	53.869	76.346	
10	1.311	1.659	2.900	4.456	6.636	10.835	18.128	26.545	41.476	56.454	80.009	
11	1.431	1.811	3.166	4.864	7.244	11.827	19.788	28.976	45.274	61.623		
12	1.551	1.963	3.432	5.272	7.852	12.819	21.448	31.406	49.072	66.793		
13	1.671	2.115	3.697	5.680	8.459	13.812	23.108	33.837	52.870	71.962		
14	1.791	2.267	3.963	6.088	9.067	14.804	24.768	36.268	56.668	77.132		
15	1.911	2.419	4.228	6.496	9.675	15.796	26.428	38.698	60.466	82.301		
16	2.031	2.571	4.494	6.904	10.282	16.788	28.088	41.129	64.264	87.470		
17	2.151	2.722	4.760	7.312	10.890	17.780	29.748	43.560	68.062			
18	2.271	2.874	5.025	7.720	11.498	18.772	31.408	45.990	71.860			
19	2.391	3.026	5.291	8.129	12.105	19.764	33.067	48.421	75.658			
20	2.511	3.178	5.556	8.537	12.713	20.757	34.727	50.851	79.455			
21	2.631	3.330	5.822	8.945	13.321	21.749	36.387	53.282	83.253			
22	2.751	3.482	6.088	9.353	13.928	22.741	38.047	55.713	87.051			
23	2.871	3.634	6.353	9.761	14.536	23.733	39.707	58.143	90.849			
24	2.991	3.786	6.619	10.169	15.144	24.725	41.367	60.574	94.647			
25	3.111	3.938	6.884	10.577	15.751	25.717	43.027	63.005				
26	3.231	4.090	7.150	10.985	16.359	26.709	44.687	65.435				
27	3.351	4.242	7.416	11.393	16.967	27.701	46.347	67.866				
28	3.471	4.394	7.681	11.801	17.574	28.694	48.007	70.297				
29	3.591	4.545	7.947	12.209	18.182	29.686	49.667	72.727				
30	3.712	4.697	8.212	12.617	18.790	30.678	51.327	75.158				
31	3.832	4.849	8.478	13.025	19.397	31.670	52.987	77.589				
32	3.952	5.001	8.743	13.433	20.005	32.662	54.647	80.019				
33	4.072	5.153	9.009	13.841	20.612	33.654	56.307					
34	4.192	5.305	9.275	14.249	21.220	34.646	57.967					
35	4.312	5.457	9.540	14.657	21.828	35.639	59.626					
36	4.432	5.609	9.806	15.065	22.435	36.631	61.286					
38	4.672	5.913	10.337	15.881	23.651	38.615	64.606					
40	4.912	6.217	10.868	16.697	24.866	40.599	67.926					

**Calculation according EN 4126-1**

# Air capacity

**Flow capacity (kg/h)**
**Overpressure 10%**
**Temperature 20° C**

	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 x100	15 x 25 20 x 32	25 x 50	32 x 50	40 x 65	50 x 80	65 x100
Set pressure  (barg)	Orifice (mm)						Orifice (mm)					
	13	20	23,8	26	32	48	13	16	20	23,8	32	39
	Area (mm <sup>2</sup> )						Area (mm <sup>2</sup> )					
	133	314	445	531	804	1.810	133	201	314	445	804	1.195
<b>33</b>	2.688	6.362	9.009	10.752	16.286	36.644	2.688	4.072	6.362	9.009	16.286	24.191
<b>34</b>	2.767	6.549	9.275	11.069	16.767	37.725	2.767	4.192	6.549	9.275	16.767	24.904
<b>35</b>	2.846	6.737	9.540	11.385	17.247	38.805	2.846	4.312	6.737	9.540	17.247	25.617
<b>36</b>	2.926	6.925	9.806	11.702	17.727	39.885	2.926	4.432	6.925	9.806	17.727	26.331
<b>37</b>	3.005	7.112	10.071	12.019	18.207	40.966	3.005	4.552	7.112	10.071	18.207	27.044
<b>38</b>	3.084	7.300	10.337	12.336	18.687	42.046	3.084	4.672	7.300	10.337	18.687	27.757
<b>39</b>	3.163	7.487	10.603	12.653	19.167	43.126	3.163	4.792	7.487	10.603	19.167	28.470
<b>40</b>	3.243	7.675	10.868	12.970	19.647	44.206	3.243	4.912	7.675	10.868	19.647	29.183
<b>42</b>	3.401	8.050	11.399	13.604	20.608	46.367	3.401	5.152	8.050	11.399	20.608	30.609
<b>44</b>	3.560	8.425	11.931	14.238	21.568	48.528	3.560	5.392	8.425	11.931	21.568	32.036
<b>46</b>	3.718	8.800	12.462	14.872	22.528	50.688	3.718	5.632	8.800	12.462	22.528	33.462
<b>48</b>	3.876	9.175	12.993	15.506	23.488	52.849	3.876	5.872	9.175	12.993	23.488	34.888
<b>50</b>	4.035	9.550	13.524	16.140	24.449	55.009	4.035	6.112	9.550	13.524	24.449	36.315
<b>52</b>	4.193	9.925	14.055	16.774	25.409	57.170	4.193	6.352	9.925	14.055	25.409	37.741
<b>54</b>	4.352	10.300	14.586	17.408	26.369	59.331	4.352	6.592	10.300	14.586	26.369	39.167
<b>56</b>	4.510	10.676	15.118	18.042	27.329	61.491	4.510	6.832	10.676	15.118	27.329	40.594
<b>58</b>	4.669	11.051	15.649	18.676	28.290	63.652	4.669	7.072	11.051	15.649	28.290	42.020
<b>60</b>	4.827	11.426	16.180	19.310	29.250	65.812	4.827	7.312	11.426	16.180	29.250	43.446
<b>62</b>	4.986	11.801	16.711	19.943	30.210	67.973	4.986	7.553	11.801	16.711	30.210	44.873
<b>64</b>							5.144	7.793	12.176	17.242	31.170	46.299
<b>66</b>							5.303	8.033	12.551	17.774	32.131	47.725
<b>68</b>							5.461	8.273	12.926	18.305	33.091	49.152
<b>70</b>							5.620	8.513	13.301	18.836	34.051	50.578
<b>72</b>							5.778	8.753	13.676	19.367	35.011	
<b>74</b>							5.937	8.993	14.051	19.898	35.972	
<b>76</b>							6.095	9.233	14.427	20.429	36.932	
<b>78</b>							6.254	9.473	14.802	20.961	37.892	
<b>80</b>							6.412	9.713	15.177	21.492	38.852	
<b>82</b>							6.571	9.953	15.552	22.023		
<b>84</b>							6.729	10.193	15.927	22.554		
<b>86</b>							6.888	10.433	16.302	23.085		
<b>88</b>							7.046	10.673	16.677	23.617		
<b>90</b>							7.205	10.913	17.052	24.148		
<b>92</b>							7.363	11.154	17.427			
<b>94</b>							7.522	11.394	17.802			
<b>96</b>							7.680	11.634	18.178			
<b>98</b>							7.838	11.874	18.553			
<b>100</b>							7.997	12.114	18.928			

**Calculation according EN 4126-1**

# Air capacity

Flow capacity (kg/h)

Overpressure 10%

Temperature 20° C

	Flanges ANSI B16.5															
	1/2" x 1"		1/2" x 1"		11/2"x3"		2" x 3"									
	3/4" x 1"		3/4" x 1"													
	1" x 1"		1" x 1"													
	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		
Set pressure (barg)	Area (mm <sup>2</sup> )															
	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		
<b>0,5</b>	88	165	251	432	661	1.034	1.488	2.255	2.960	3.523	5.215	9.018	12.941	21.145		
<b>1</b>	119	224	339	583	894	1.397	2.012	3.048	4.002	4.762	7.050	12.191	17.495	28.586		
<b>1,5</b>	150	282	427	735	1.127	1.761	2.536	3.841	5.043	6.002	8.884	15.365	22.049	36.026		
<b>2</b>	182	340	515	887	1.360	2.125	3.060	4.635	6.085	7.241	10.719	18.538	26.602	43.467		
<b>2,5</b>	213	398	603	1.039	1.593	2.488	3.583	5.428	7.126	8.481	12.554	21.712	31.156	50.908		
<b>3</b>	244	456	691	1.191	1.825	2.852	4.107	6.221	8.168	9.721	14.389	24.885	35.710	58.348		
<b>3,5</b>	275	515	779	1.343	2.058	3.216	4.631	7.015	9.210	10.960	16.224	28.058	40.264	65.789		
<b>4</b>	306	573	868	1.494	2.291	3.579	5.154	7.808	10.251	12.200	18.059	31.232	44.817	73.229		
<b>4,5</b>	337	631	956	1.646	2.524	3.943	5.678	8.601	11.293	13.439	19.894	34.405	49.371	80.670		
<b>5</b>	368	689	1.044	1.798	2.756	4.307	6.202	9.395	12.334	14.679	21.729	37.578	53.925	88.111		
<b>5,5</b>	399	747	1.132	1.950	2.989	4.671	6.726	10.188	13.376	15.919	23.564	40.752	58.479	95.551		
<b>6</b>	430	805	1.220	2.102	3.222	5.034	7.249	10.981	14.418	17.158	25.399	43.925	63.033	102.992		
<b>6,5</b>	461	864	1.308	2.254	3.455	5.398	7.773	11.775	15.459	18.398	27.234	47.098	67.586	110.433		
<b>7</b>	492	922	1.396	2.406	3.687	5.762	8.297	12.568	16.501	19.637	29.069	50.272	72.140	117.873		
<b>7,5</b>	523	980	1.485	2.557	3.920	6.125	8.821	13.361	17.542	20.877	30.904	53.445	76.694	125.314		
<b>8</b>	554	1.038	1.573	2.709	4.153	6.489	9.344	14.155	18.584	22.117	32.739	56.618	81.248	132.755		
<b>8,5</b>	586	1.096	1.661	2.861	4.386	6.853	9.868	14.948	19.626	23.356	34.574	59.792	85.801	140.195		
<b>9</b>	617	1.155	1.749	3.013	4.619	7.216	10.392	15.741	20.667	24.596	36.409	62.965	90.355	147.636		
<b>9,5</b>	648	1.213	1.837	3.165	4.851	7.580	10.915	16.535	21.709	25.835	38.243	66.138	94.909	155.077		
<b>10</b>	679	1.271	1.925	3.317	5.084	7.944	11.439	17.328	22.750	27.075	40.078	69.312	99.463	162.517		
<b>11</b>	741	1.387	2.102	3.620	5.550	8.671	12.487	18.915	24.834	29.554	43.748	75.659	108.570	177.399		
<b>12</b>	803	1.504	2.278	3.924	6.015	9.399	13.534	20.501	26.917	32.033	47.418	82.005	117.678	192.280		
<b>13</b>	865	1.620	2.454	4.228	6.481	10.126	14.582	22.088	29.000	34.512	51.088	88.352	126.785	207.161		
<b>14</b>	927	1.737	2.631	4.531	6.946	10.853	15.629	23.675	31.083	36.992	54.758	94.699	135.893	222.042		
<b>15</b>	990	1.853	2.807	4.835	7.412	11.581	16.676	25.261	33.166	39.471	58.428	101.045	145.000	236.924		
<b>16</b>	1.052	1.969	2.983	5.139	7.877	12.308	17.724	26.848	35.250	41.950	62.098	107.392				
<b>18</b>	1.176	2.202	3.336	5.746	8.808	13.763	19.819	30.021	39.416	46.908	69.437	120.085				
<b>20</b>	1.300	2.435	3.688	6.354	9.739	15.218	21.914	33.195	43.582	51.867	76.777	132.779				
<b>22</b>	1.425	2.668	4.041	6.961	10.670	16.673	24.009	36.368	47.749	56.825	84.117					
<b>24</b>	1.549	2.900	4.393	7.568	11.602	18.127	26.104	39.541	51.915	61.783	91.457					
<b>26</b>	1.673	3.133	4.746	8.176	12.533	19.582	28.198	42.715	56.082	66.742	98.796					
<b>28</b>	1.797	3.366	5.099	8.783	13.464	21.037	30.293	45.888	60.248	71.700	106.136					
<b>30</b>	1.922	3.599	5.451	9.391	14.395	22.492	32.388	49.061	64.414	76.659	113.476					
<b>32</b>	2.046	3.831	5.804	9.998	15.326	23.947	34.483	52.235	68.581	81.617	120.816					
<b>34</b>	2.170	4.064	6.156	10.605	16.257	25.401	36.578	55.408	72.747	86.575	128.155					
<b>36</b>	2.295	4.297	6.509	11.213	17.188	26.856	38.673	58.582	76.914	91.534						
<b>38</b>	2.419	4.530	6.862	11.820	18.119	28.311	40.768	61.755	81.080	96.492						
<b>40</b>	2.543	4.763	7.214	12.428	19.050	29.766	42.863	64.928	85.247	101.450						
<b>42</b>	2.668	4.995	7.567	13.035	19.981	31.221	44.958	68.102	89.413	106.409						
<b>44</b>	2.792	5.228	7.919	13.642	20.912	32.675	47.053	71.275	93.579	111.367						
<b>46</b>	2.916	5.461	8.272	14.250	21.843	34.130	49.148	74.448	97.746	116.325						
<b>48</b>	3.041	5.694	8.625	14.857	22.774	35.585	51.242	77.622	101.912	121.284						
<b>50</b>	3.165	5.926	8.977	15.465	23.705	37.040	53.337	80.795	106.079	126.242						

Calculation according EN 4126-1

# Air capacity

**Flow capacity (kg/h)**

**Overpressure 10%**

**Temperature 20° C**

	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"x2"	1 1/2"x3"	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
Set pressure (barg)	Area (mm <sup>2</sup> )										
	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
<b>40</b>	2.543	4.763	7.214	12.428	19.050	29.766	42.863	85.247	101.450	150.175	259.713
<b>41</b>	2.605	4.879	7.391	12.731	19.516	30.493	43.910	87.330	103.930	153.845	266.060
<b>42</b>	2.668	4.995	7.567	13.035	19.981	31.221	44.958	89.413	106.409	157.514	272.406
<b>43</b>	2.730	5.112	7.743	13.339	20.447	31.948	46.005	91.496	108.888	161.184	278.753
<b>44</b>	2.792	5.228	7.919	13.642	20.912	32.675	47.053	93.579	111.367	164.854	285.100
<b>45</b>	2.854	5.344	8.096	13.946	21.378	33.403	48.100	95.663	113.846	168.524	291.447
<b>46</b>	2.916	5.461	8.272	14.250	21.843	34.130	49.148	97.746	116.325	172.194	297.793
<b>47</b>	2.978	5.577	8.448	14.554	22.309	34.858	50.195	99.829	118.805	175.864	304.140
<b>48</b>	3.041	5.694	8.625	14.857	22.774	35.585	51.242	101.912	121.284	179.534	310.487
<b>49</b>	3.103	5.810	8.801	15.161	23.240	36.312	52.290	103.995	123.763	183.204	316.833
<b>50</b>	3.165	5.926	8.977	15.465	23.705	37.040	53.337	106.079	126.242	186.874	323.180
<b>52</b>	3.289	6.159	9.330	16.072	24.637	38.495	55.432	110.245	131.201	194.213	335.873
<b>54</b>	3.413	6.392	9.682	16.679	25.568	39.949	57.527	114.411	136.159	201.553	348.567
<b>56</b>	3.538	6.625	10.035	17.287	26.499	41.404	59.622	118.578	141.117	208.893	361.260
<b>58</b>	3.662	6.857	10.388	17.894	27.430	42.859	61.717	122.744	146.076	216.233	373.954
<b>60</b>	3.786	7.090	10.740	18.502	28.361	44.314	63.812	126.911	151.034	223.572	
<b>62</b>	3.911	7.323	11.093	19.109	29.292	45.769	65.907	131.077	155.992	230.912	
<b>64</b>	4.035	7.556	11.445	19.716	30.223	47.223	68.002	135.243	160.951	238.252	
<b>66</b>	4.159	7.789	11.798	20.324	31.154	48.678	70.097	139.410	165.909	245.592	
<b>68</b>	4.284	8.021	12.151	20.931	32.085	50.133	72.192	143.576	170.867	252.931	
<b>70</b>	4.408	8.254	12.503	21.539	33.016	51.588	74.286	147.743	175.826		
<b>72</b>	4.532	8.487	12.856	22.146	33.947	53.043	76.381	151.909	180.784		
<b>74</b>	4.656	8.720	13.208	22.753	34.878	54.497	78.476	156.075	185.743		
<b>76</b>	4.781	8.952	13.561	23.361	35.809	55.952	80.571	160.242	190.701		
<b>78</b>	4.905	9.185	13.914	23.968	36.740	57.407	82.666	164.408	195.659		
<b>80</b>	5.029	9.418	14.266	24.576	37.672	58.862	84.761	168.575	200.618		
<b>82</b>	5.154	9.651	14.619	25.183	38.603	60.317	86.856	172.741			
<b>84</b>	5.278	9.883	14.971	25.790	39.534	61.771	88.951	176.907			
<b>86</b>	5.402	10.116	15.324	26.398	40.465	63.226	91.046	181.074			
<b>88</b>	5.527	10.349	15.677	27.005	41.396	64.681	93.141	185.240			
<b>90</b>	5.651	10.582	16.029	27.613	42.327	66.136	95.236	189.407			
<b>92</b>	5.775	10.814	16.382	28.220	43.258	67.591	97.330	193.573			
<b>94</b>	5.899	11.047	16.734	28.827	44.189	69.045	99.425				
<b>96</b>	6.024	11.280	17.087	29.435	45.120	70.500	101.520				
<b>98</b>	6.148	11.513	17.439	30.042	46.051	71.955	103.615				
<b>100</b>	6.272	11.746	17.792	30.650	46.982	73.410	105.710				

Calculation according EN 4126-1





## Air capacity

Flow capacity (kg/h)

Overpressure 10%

Temperature 20° C

Set pressure (barg)	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"
	Orifice (mm)				
	13	13	14	14	16
	Area (mm <sup>2</sup> )				
	133	133	154	154	201
0,5	97	97	112	112	147
1	131	131	152	152	198
1,5	165	165	191	191	250
2	199	199	231	231	301
2,5	233	233	270	270	353
3	267	267	310	310	404
3,5	301	301	349	349	456
4	335	335	389	389	508
4,5	369	369	428	428	559
5	403	403	468	468	611
5,5	437	437	507	507	662
6	471	471	547	547	714
6,5	505	505	586	586	765
7	539	539	626	626	817
7,5	573	573	665	665	869
8	607	607	705	705	920
8,5	642	642	744	744	972
9	676	676	784	784	1.023
9,5	710	710	823	823	1.075
10	744	744	862	862	1.127
11	812	812	941	941	1.230
12	880	880	1.020	1.020	1.333
13	948	948	1.099	1.099	1.436
14	1.016	1.016	1.178	1.178	1.539
15	1.084	1.084	1.257	1.257	1.642
16	1.152	1.152	1.336	1.336	1.745
17	1.220	1.220	1.415	1.415	1.849
18	1.288	1.288	1.494	1.494	1.952
19	1.357	1.357	1.573	1.573	2.055
20	1.425	1.425	1.652	1.652	2.158
21	1.493	1.493	1.731	1.731	2.261
22	1.561	1.561	1.810	1.810	2.364
23	1.629	1.629	1.889	1.889	2.468
24	1.697	1.697	1.968	1.968	2.571
25	1.765	1.765	2.047	2.047	2.674
26	1.833	1.833	2.126	2.126	2.777
27	1.901	1.901	2.205	2.205	2.880
28	1.969	1.969	2.284	2.284	2.983
29	2.038	2.038	2.363	2.363	3.086
30	2.106	2.106	2.442	2.442	3.190
31	2.174	2.174	2.521	2.521	3.293
32	2.242	2.242	2.600	2.600	3.396
33	2.310	2.310	2.679	2.679	3.499
34	2.378	2.378	2.758	2.758	3.602
35	2.446	2.446	2.837	2.837	3.705
36	2.514	2.514	2.916	2.916	3.808
37	2.582	2.582	2.995	2.995	3.912
38	2.650	2.650	3.074	3.074	4.015
39	2.718	2.718	3.153	3.153	4.118
40	2.787	2.787	3.232	3.232	4.221

Calculation according EN 4126-1



## Air capacity

**Flow capacity (kg/h)  
Overpressure 10%**

**Temperature 20° C**

	Clamp x rosca BSP / NPT o Clamp x Clamp			
	15 x 1" 15 x 25	20 x 1" 20 x 25	25 x 1" 25 x 25	40 x 2" 40 x 40
Set pressure (barg)	Orificio (mm)			
	9,5	15	20	32
	Area (mm <sup>2</sup> )			
	71	177	314	804
<b>0,5</b>	52	129	229	586
<b>1</b>	70	174	310	793
<b>1,5</b>	88	219	390	999
<b>2</b>	106	265	471	1.205
<b>2,5</b>	124	310	551	1.412
<b>3</b>	143	355	632	1.618
<b>3,5</b>	161	401	713	1.824
<b>4</b>	179	446	793	2.030
<b>4,5</b>	197	491	874	2.237
<b>5</b>	215	537	954	2.443
<b>5,5</b>	233	582	1.035	2.649
<b>6</b>	252	627	1.115	2.856
<b>6,5</b>	270	673	1.196	3.062
<b>7</b>	288	718	1.277	3.268
<b>7,5</b>	306	763	1.357	3.475
<b>8</b>	324	809	1.438	3.681
<b>8,5</b>	343	854	1.518	3.887
<b>9</b>	361	899	1.599	4.093
<b>9,5</b>	379	945	1.680	4.300
<b>10</b>	397	990	1.760	4.506

Calculation according EN 4126-1

## Air capacity

**Flow capacity (kg/h)**
**Overpressure 10%**

Set pressure (barg)	p/p <sub>0</sub>	BSP / NPT Flanges EN / ANSI							
		25 y 1"	50 y 2"	65	80	100	125	150	200
0,02	0,98	77	183	188	205	333	531	633	836
0,03	0,97	94	223	228	249	404	645	769	1.016
0,04	0,96	108	255	262	286	463	739	881	1.164
0,05	0,95	120	283	290	317	514	820	977	1.291
0,06	0,94	130	307	315	344	558	891	1.062	1.403
0,07	0,93	139	329	338	369	598	954	1.137	1.503
0,08	0,92	148	349	358	391	634	1.012	1.206	1.593
0,09	0,91	155	367	377	411	667	1.064	1.268	1.675
0,1	0,9	162	383	394	429	697	1.112	1.325	1.751
0,12	0,88	174	412	423	462	750	1.196	1.425	1.884
0,14	0,86	185	437	449	490	795	1.268	1.511	1.997
0,16	0,84	194	459	471	514	833	1.330	1.585	2.094
0,18	0,82	202	477	489	534	866	1.383	1.647	2.177
0,2	0,8	208	492	505	551	894	1.427	1.701	2.247
0,22	0,78	214	505	518	566	918	1.465	1.745	2.306
0,24	0,76	218	516	529	578	937	1.495	1.782	2.355
0,26	0,74	222	524	538	587	952	1.520	1.811	2.393
0,28	0,72	224	530	545	594	964	1.538	1.833	2.422
0,3	0,7	226	535	549	599	972	1.551	1.848	2.443
0,32	0,68	227	537	552	602	977	1.558	1.857	2.454
0,34	0,66	228	538	552	603	978	1.560	1.859	2.457
0,36	0,64	228	538	552	603	978	1.560	1.859	2.457
0,38	0,62	228	538	552	603	978	1.560	1.859	2.457
0,4	0,6	228	538	552	603	978	1.560	1.859	2.457
0,42	0,58	228	538	552	602	978	1.560	1.859	2.456
0,44	0,56	228	538	552	602	978	1.560	1.859	2.456
0,46	0,54	228	538	552	602	978	1.560	1.859	2.456
0,48	0,52	228	538	552	602	978	1.560	1.859	2.456
0,5	0,5	227	537	551	601	976	1.557	1.855	2.451