

## Maßeinheiten und Umrechnungsfaktoren

### Druck

10 N pro cm<sup>2</sup> = 1 bar = 14,5 p.s.i.

1 Torr = 1mm Hg = 1mm Quecksilbersäule = ca. 133,3 Pa.

1 Meter Wassersäule (mWS) = 0,1 at = 9,807 kPa.

1 Technische Atmosphäre (at) = 1 kp/m<sup>2</sup> = ca. 98069 Pa.

1 Physikalische Atmosphäre (atm) = 760 Torr = 101325 Pa = 1013,25 hPa = 101,325 kPa.

1 psi = 1 lb.p.sq.in. = 144 lb.p.sq.ft = 1/2240 tn.p.sq.in = 0,069 bar = 6894,757293168 Pa.

### Länge

Inches x 25,4 = Millimeter

Inches x 0,0254 = Meter

Fuß x 0,30480 = Meter

Yard x 0,91440 = Meter

Fuß x 0,0003048 = Kilometer

Landmeile x 1,60935 = Kilometer

Seemeile x 1,85325 = Kilometer

Millimeter x 0,039370 = Inches

Meter x 39,370 = Inches

Meter x 3,2808 = Fuß

Meter x 1,09361 = Yards

Kilometer x 3,2808 = Fuß

Kilometer x 0,62137 = Landmeile

Kilometer x 0,539589 = Seemeile

### Gewicht

Unzen x 28,35 = Gramm

Flüssigkeitsunzen x 29,57 = Gramm (Wasser)

Unzen x 0,02835 = Kilogramm

Pfund x 0,045359 = Kilogramm

Gramm x 0,03527 = Unzen

Gramm x 0,033818 = Flüssigkeitsunzen (Wasser)

Kilogramm x 35,27 = Unzen

Kilogramm x 2,20462 = Pfund

### Druck

6,9 bar = 100 p.s.i.

17,25 bar = 250 p.s.i.

41,4 bar = 600 p.s.i.

5 bar = 72,5 p.s.i.

10 bar = 145 p.s.i.

25 bar = 362,5 p.s.i.

### Temperatur

Fahrenheit (°F) = 9/5 x °C + 32

°Celsius (°C) = 5/9 x (°F-32)

## Umrechnungstabelle – Zoll – Metrisch

<u>ZOLL</u>		<u>MILLIMETER</u>	<u>ZOLL</u>		<u>MILLIMETER</u>	
$\frac{1}{32}$	$\frac{1}{64}$	.015625	<b>0,3969</b>	$\frac{33}{64}$	.515625	<b>13,0969</b>
$\frac{1}{16}$	$\frac{3}{64}$	.03125	0,7938	$\frac{35}{64}$	.53125	13,4938
$\frac{1}{8}$	$\frac{5}{64}$	.046875	<b>1,1906</b>	$\frac{37}{64}$	.546875	<b>13,8907</b>
$\frac{3}{32}$	$\frac{7}{64}$	.0625	1,5875	$\frac{39}{64}$	.5625	14,2876
$\frac{1}{4}$	$\frac{9}{64}$	.078125	<b>1,9844</b>	$\frac{41}{64}$	.578125	<b>14,6844</b>
$\frac{5}{32}$	$\frac{11}{64}$	.09375	2,3813	$\frac{43}{64}$	.59375	15,0813
$\frac{3}{16}$	$\frac{13}{64}$	.109375	<b>2,7781</b>	$\frac{45}{64}$	.609375	<b>15,4782</b>
$\frac{1}{2}$	$\frac{15}{64}$	.125	3,1750	$\frac{47}{64}$	.625	15,8751
$\frac{5}{8}$	$\frac{17}{64}$	.140625	<b>3,5719</b>	$\frac{49}{64}$	.640625	<b>16,2719</b>
$\frac{3}{4}$	$\frac{19}{64}$	.15625	3,9688	$\frac{51}{64}$	.65625	16,6688
$\frac{7}{8}$	$\frac{21}{64}$	.171875	<b>4,3656</b>	$\frac{53}{64}$	.671875	<b>17,0657</b>
$\frac{15}{16}$	$\frac{23}{64}$	.1875	4,7625	$\frac{55}{64}$	.6875	17,4626
$\frac{1}{1}$	$\frac{25}{64}$	.203125	<b>5,1594</b>	$\frac{57}{64}$	.703125	<b>17,8594</b>
	$\frac{27}{64}$	.21875	5,5563	$\frac{59}{64}$	.71875	18,2563
	$\frac{29}{64}$	.234375	<b>5,9531</b>	$\frac{61}{64}$	.734375	<b>18,6532</b>
	$\frac{31}{64}$	.250	6,3500	$\frac{63}{64}$	.750	19,0501
	$\frac{1}{1}$	.265625	<b>6,7469</b>	$\frac{1}{1}$	.765625	<b>19,4470</b>
	$\frac{1}{1}$	.28125	7,1438	$\frac{1}{1}$	.78125	19,8438
	$\frac{1}{1}$	.296875	<b>7,5406</b>	$\frac{1}{1}$	.796875	<b>20,2407</b>
	$\frac{1}{1}$	.3125	7,9375	$\frac{1}{1}$	.8125	20,6376
	$\frac{1}{1}$	.328125	<b>8,3344</b>	$\frac{1}{1}$	.828125	<b>21,0345</b>
	$\frac{1}{1}$	.34375	8,7313	$\frac{1}{1}$	.84375	21,4313
	$\frac{1}{1}$	.359375	<b>9,1282</b>	$\frac{1}{1}$	.859375	<b>21,8282</b>
	$\frac{1}{1}$	.375	9,5250	$\frac{1}{1}$	.875	22,2251
	$\frac{1}{1}$	.390625	<b>9,9219</b>	$\frac{1}{1}$	.890625	<b>22,6220</b>
	$\frac{1}{1}$	.40625	10,3188	$\frac{1}{1}$	.90625	23,0188
	$\frac{1}{1}$	.421875	<b>10,7157</b>	$\frac{1}{1}$	.921875	<b>23,4157</b>
	$\frac{1}{1}$	.4375	11,1125	$\frac{1}{1}$	.9375	23,8126
	$\frac{1}{1}$	.453125	<b>11,5094</b>	$\frac{1}{1}$	.953125	<b>24,2095</b>
	$\frac{1}{1}$	.46875	11,9063	$\frac{1}{1}$	.96875	24,6063
	$\frac{1}{1}$	.484375	<b>12,3032</b>	$\frac{1}{1}$	.984375	<b>25,0032</b>
	$\frac{1}{1}$	.500	12,7001	$\frac{1}{1}$	1.000	25,4001

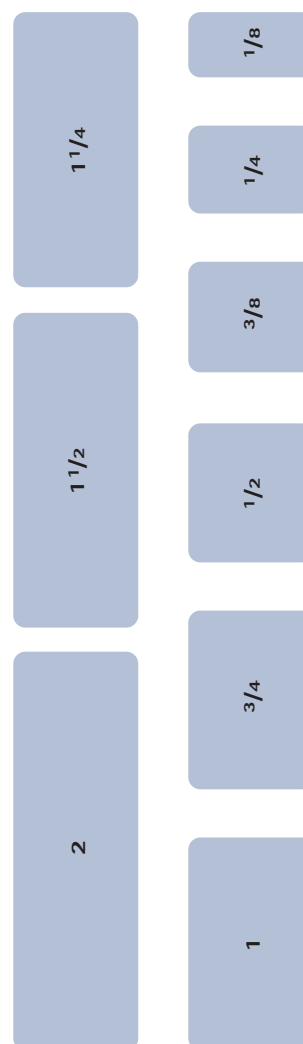
## Temperaturumrechnungstabelle

In der mittleren Spalte finden sie die umzurechnende Temperatur. Suchen Sie nach der Umrechnung in °Fahrenheit, finden Sie den Wert in der rechten Spalte, suchen Sie nach der Umrechnung in °Celsius, finden Sie den Wert in der linken Spalte.  
(z.B. 100°F = 37,8°C).

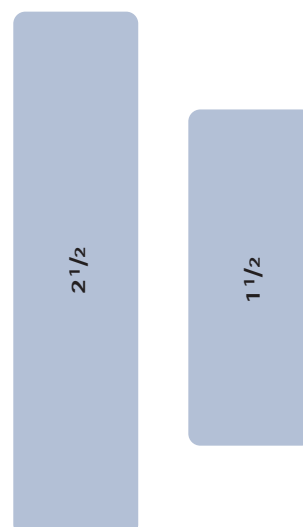
°C	°F	°C	°F	°C	°F	°C	°F	
-73	-100	-148	5.0	41	105.8	33.3	92	197.6
-68	-90	-130	5.6	42	107.6	33.9	93	199.4
-62	-80	-112	6.1	43	109.4	34.4	94	201.2
-57	-70	-94	6.7	44	111.2	35.0	95	203.0
-51	-60	-76	7.2	45	113.0	35.6	96	204.8
-46	-50	-58	7.8	46	114.8	36.1	97	206.6
-40	-40	-40	8.3	47	116.6	36.7	98	208.4
-34	-30	-22	8.9	48	118.4	37.2	99	210.2
-29	-20	-4	9.4	49	120.2	37.8	100	212.0
-23	-10	14	10.0	50	122.0	43	110	230
-17.8	0	32	10.6	51	123.8	49	120	248
-17.2	1	33.8	11.1	52	125.6	54	130	266
-16.7	2	35.6	11.7	53	127.4	60	140	284
-16.1	3	37.4	12.2	54	129.2	66	150	302
-15.6	4	39.2	12.8	55	131.0	71	160	320
-15.0	5	41.0	13.3	56	132.8	77	170	338
-14.4	6	42.8	13.9	57	134.6	82	180	356
-13.9	7	44.6	14.4	58	136.4	88	190	374
-13.3	8	46.4	15.0	59	138.2	93	200	392
-12.8	9	48.2	15.6	60	140.0	99	210	410
-12.2	10	50.0	16.1	61	141.8	100	212	413.6
-11.7	11	51.8	16.7	62	143.6	104	220	428
-11.1	12	53.6	17.2	63	145.4	110	230	446
-10.6	13	55.4	17.8	64	147.2	116	240	464
-10.0	14	57.2	18.3	65	149.0	121	250	482
-9.4	15	59.0	18.9	66	150.8	127	260	500
-8.9	16	60.8	19.4	67	152.6	132	270	518
-8.3	17	62.6	20.0	68	154.4	138	280	536
-7.8	18	64.4	20.6	69	156.2	143	290	554
-7.2	19	66.2	21.1	70	158.0	149	300	572
-6.7	20	68.0	21.7	71	159.8	154	310	590
-6.1	21	69.8	22.2	72	161.6	160	320	608
-5.6	22	71.6	22.8	73	163.4	166	320	626
-5.0	23	73.4	23.3	74	165.2	170	338	640
-4.4	24	75.2	23.9	75	167.0	171	340	644
-3.9	25	77.0	24.4	76	168.8	177	350	662
-3.3	26	78.8	25.0	77	170.6	182	360	680
-2.8	27	80.6	25.6	78	172.4	186	366	691
-2.2	28	82.4	26.1	79	174.2	188	370	698
-1.7	29	84.2	26.7	80	176.0	193	380	716
-1.1	30	86.0	27.2	81	177.8	198	388	730
-0.6	31	87.8	27.8	82	179.6	199	390	734
0	32	89.6	28.3	83	181.4	204	400	752
.6	33	91.4	28.9	84	183.2	208	406	763
1.1	34	93.2	29.4	85	185.0	210	410	770
1.7	35	95.0	30.0	86	186.8	216	420	788
2.2	36	96.8	30.6	87	188.6	221	430	806
2.8	37	98.6	31.1	88	190.4	227	440	824
3.3	38	100.4	31.7	89	192.2	232	450	842
3.9	39	102.2	32.2	90	194.0			
4.4	40	104.0	32.8	91	195.8			

## Anschlussgrößen

### NPT Außengewinde



### NST Außengewinde



## Dampf Temperatur – Druck Umrechnungstabelle

Temperatur °F      °C		bar	Temperatur °F      °C		bar	Temperatur °F      °C		bar
212	100.0	0	286	141.1	2,72	336	168.9	6,7
214	101.1	0,0041	287	141.7	2,78	337	169.4	6,81
216	102.2	0,083	288	142.2	2,83	338	170.0	6,91
218	103.3	0,124	289	142.8	2,9	339	170.6	7,02
220	104.4	0,172	290	143.3	2,96	340	171.1	7,12
222	105.6	0,22	291	143.9	3,02	341	171.7	7,24
224	106.7	0,27	292	144.4	3,08	342	172.2	7,34
226	107.8	0,32	293	145.0	3,14	343	172.8	7,46
228	108.9	0,37	294	145.6	3,21	344	173.3	7,57
230	110.0	0,42	295	146.1	3,27	345	173.9	7,69
232	111.1	0,48	296	146.7	3,33	346	174.4	7,80
234	112.2	0,53	297	147.2	3,40	347	175.0	7,92
236	113.3	0,59	298	147.8	3,47	348	175.6	8,03
238	114.4	0,65	299	148.3	3,54	349	176.1	8,15
240	115.6	0,71	300	148.9	3,61	350	176.7	8,27
242	116.7	0,77	301	149.4	3,68	352	177.8	8,52
244	117.8	0,83	302	150.0	3,75	354	178.9	8,77
246	118.9	0,90	303	150.6	3,82	356	180.0	9,02
248	120.0	0,97	304	151.1	3,89	358	181.1	9,28
250	121.1	1,04	305	151.7	3,97	360	182.2	9,54
252	122.2	1,12	306	152.2	4,04	362	183.3	9,81
254	123.3	1,19	307	152.8	4,12	364	184.4	10,08
256	124.4	1,27	308	153.3	4,19	366	185.6	10,37
258	125.6	1,35	309	153.9	4,27	368	186.7	10,65
260	126.7	1,43	310	154.4	4,34	370	187.8	10,94
261	127.2	1,48	311	155.0	4,43	372	188.9	11,24
262	127.8	1,52	312	155.6	4,50	374	190.0	11,54
263	128.3	1,56	313	156.1	4,59	376	191.1	11,86
264	128.9	1,60	314	156.7	4,66	378	192.2	12,17
265	129.4	1,65	315	157.2	4,73	380	193.3	12,49
266	130.0	1,69	316	157.8	4,83	382	194.4	12,81
267	130.6	1,74	317	158.3	4,92	384	195.6	13,14
268	131.1	1,78	318	158.9	5,0	386	196.7	13,49
269	131.7	1,83	319	159.4	5,08	388	197.8	13,83
270	132.2	1,88	320	160.0	5,17	390	198.9	14,19
271	132.8	1,92	321	160.6	5,26	392	200.0	14,54
272	133.3	1,97	322	161.1	5,34	394	201.1	14,91
273	133.9	2,02	323	161.7	5,43	396	202.2	15,28
274	134.4	2,07	324	162.2	5,52	398	203.3	15,66
275	135.0	2,12	325	162.8	5,62	400	204.4	16,04
276	135.6	2,17	326	163.3	5,71	402	205.5	16,41
277	136.1	2,23	327	163.9	5,81	404	206.7	16,83
278	136.7	2,28	328	164.4	5,90	406	207.8	17,24
279	137.2	2,33	329	165.0	6,0	408	208.9	17,66
280	137.8	2,38	330	165.6	6,10	410	210	18,07
281	138.3	2,43	331	166.1	6,19	412	211.1	18,48
282	138.9	2,49	332	166.7	6,29	414	212.2	18,97
283	139.4	2,54	333	167.2	6,39	416	213.3	19,38
284	140.0	2,6	334	167.8	6,49	418	214.4	19,86
285	140.6	2,66	335	168.3	6,59	420	215.6	20,28