

PRESSURE TO FORCE CONVERSION CHART

CYLINDER

AREA cm²

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
20	290.1	3.41	767.50
40	580.1	6.83	1535.00
60	870.2	10.24	2302.50
80	1160.2	13.66	3070.01
100	1450.3	17.07	3837.51
120	1740.4	20.48	4605.01
140	2030.4	23.90	5372.51
160	2320.5	27.31	6140.01
180	2610.5	30.73	6907.51
200	2900.6	34.14	7675.01
220	3190.7	37.55	8442.51
240	3480.7	40.97	9210.02
260	3770.8	44.38	9977.52
280	4060.8	47.80	10745.02
300	4350.9	51.21	11512.52
320	4641.0	54.62	12280.02
340	4931.0	58.04	13047.52
360	5221.1	61.45	13815.02
380	5511.1	64.87	14582.53
400	5801.2	68.28	15350.03
420	6091.3	71.69	16117.53
440	6381.3	75.11	16885.03
460	6671.4	78.52	17652.53
480	6961.4	81.94	18420.03
500	7251.5	85.35	19187.53
520	7541.6	88.76	19955.03
540	7831.6	92.18	20722.54
560	8121.7	95.59	21490.04
580	8411.7	99.01	22257.54
600	8701.8	102.42	23025.04
620	8991.9	105.83	23792.54
640	9281.9	109.25	24560.04
660	9572.0	112.66	25327.54
680	9862.0	116.08	26095.05
700	10152.1	119.49	26862.55
720	10442.2	122.90	27630.05
740	10732.2	126.32	28397.55
760	11022.3	129.73	29165.05

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
780	11312.3	133.15	29932.55
800	11602.4	136.56	30700.05
820	11892.5	139.97	31467.55
840	12182.5	143.39	32235.06
860	12472.6	146.80	33002.56
880	12762.6	150.22	33770.06
900	13052.7	153.63	34537.56
920	13342.8	157.04	35305.06
940	13632.8	160.46	36072.56
960	13922.9	163.87	36840.06
980	14212.9	167.29	37607.57
1000	14503.0	170.70	38375.07
1020	14793.1	174.11	39142.57
1040	15083.1	177.53	39910.07
1060	15373.2	180.94	40677.57
1080	15663.2	184.36	41445.07
1100	15953.3	187.77	42212.57
1120	16243.4	191.18	42980.08
1140	16533.4	194.60	43747.58
1160	16823.5	198.01	44515.08
1180	17113.5	201.43	45282.58
1200	17403.6	204.84	46050.08
1220	17693.7	208.25	46817.58
1240	17983.7	211.67	47585.08
1260	18273.8	215.08	48352.58
1280	18563.8	218.50	49120.09
1300	18853.9	221.91	49887.59
1320	19144.0	225.32	50655.09
1340	19434.0	228.74	51422.59
1360	19724.1	232.15	52190.09
1380	20014.1	235.57	52957.59
1400	20304.2	238.98	53725.09
1420	20594.3	242.39	54492.60
1440	20884.3	245.81	55260.10
1460	21174.4	249.22	56027.60
1480	21464.4	252.64	56795.10
1500	21754.5	256.05	57562.60

PRESSURE TO FORCE CONVERSION CHART

CYLINDER

AREA cm²

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
20	290.1	5.74	1289.96
40	580.1	11.48	2579.92
60	870.2	17.21	3869.88
80	1160.2	22.95	5159.84
100	1450.3	28.69	6449.80
120	1740.4	34.43	7739.76
140	2030.4	40.17	9029.72
160	2320.5	45.90	10319.68
180	2610.5	51.64	11609.64
200	2900.6	57.38	12899.60
220	3190.7	63.12	14189.56
240	3480.7	68.86	15479.52
260	3770.8	74.59	16769.48
280	4060.8	80.33	18059.44
300	4350.9	86.07	19349.40
320	4641.0	91.81	20639.36
340	4931.0	97.55	21929.32
360	5221.1	103.28	23219.28
380	5511.1	109.02	24509.24
400	5801.2	114.76	25799.20
420	6091.3	120.50	27089.16
440	6381.3	126.24	28379.12
460	6671.4	131.97	29669.07
480	6961.4	137.71	30959.03
500	7251.5	143.45	32248.99
520	7541.6	149.19	33538.95
540	7831.6	154.93	34828.91
560	8121.7	160.66	36118.87
580	8411.7	166.40	37408.83
600	8701.8	172.14	38698.79
620	8991.9	177.88	39988.75
640	9281.9	183.62	41278.71
660	9572.0	189.35	42568.67
680	9862.0	195.09	43858.63
700	10152.1	200.83	45148.59
720	10442.2	206.57	46438.55
740	10732.2	212.31	47728.51
760	11022.3	218.04	49018.47

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
780	11312.3	223.78	50308.43
800	11602.4	229.52	51598.39
820	11892.5	235.26	52888.35
840	12182.5	241.00	54178.31
860	12472.6	246.73	55468.27
880	12762.6	252.47	56758.23
900	13052.7	258.21	58048.19
920	13342.8	263.95	59338.15
940	13632.8	269.69	60628.11
960	13922.9	275.42	61918.07
980	14212.9	281.16	63208.03
1000	14503.0	286.90	64497.99
1020	14793.1	292.64	65787.95
1040	15083.1	298.38	67077.91
1060	15373.2	304.11	68367.87
1080	15663.2	309.85	69657.83
1100	15953.3	315.59	70947.79
1120	16243.4	321.33	72237.75
1140	16533.4	327.07	73527.71
1160	16823.5	332.80	74817.67
1180	17113.5	338.54	76107.63
1200	17403.6	344.28	77397.59
1220	17693.7	350.02	78687.55
1240	17983.7	355.76	79977.51
1260	18273.8	361.49	81267.47
1280	18563.8	367.23	82557.43
1300	18853.9	372.97	83847.39
1320	19144.0	378.71	85137.35
1340	19434.0	384.45	86427.31
1360	19724.1	390.18	87717.27
1380	20014.1	395.92	89007.22
1400	20304.2	401.66	90297.18
1420	20594.3	407.40	91587.14
1440	20884.3	413.14	92877.10
1460	21174.4	418.87	94167.06
1480	21464.4	424.61	95457.02
1500	21754.5	430.35	96746.98

PRESSURE TO FORCE CONVERSION CHART

CYLINDER

AREA cm²

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
20	290.1	7.38	1658.65
40	580.1	14.76	3317.30
60	870.2	22.13	4975.94
80	1160.2	29.51	6634.59
100	1450.3	36.89	8293.24
120	1740.4	44.27	9951.89
140	2030.4	51.65	11610.54
160	2320.5	59.02	13269.19
180	2610.5	66.40	14927.83
200	2900.6	73.78	16586.48
220	3190.7	81.16	18245.13
240	3480.7	88.54	19903.78
260	3770.8	95.91	21562.43
280	4060.8	103.29	23221.07
300	4350.9	110.67	24879.72
320	4641.0	118.05	26538.37
340	4931.0	125.43	28197.02
360	5221.1	132.80	29855.67
380	5511.1	140.18	31514.32
400	5801.2	147.56	33172.96
420	6091.3	154.94	34831.61
440	6381.3	162.32	36490.26
460	6671.4	169.69	38148.91
480	6961.4	177.07	39807.56
500	7251.5	184.45	41466.20
520	7541.6	191.83	43124.85
540	7831.6	199.21	44783.50
560	8121.7	206.58	46442.15
580	8411.7	213.96	48100.80
600	8701.8	221.34	49759.45
620	8991.9	228.72	51418.09
640	9281.9	236.10	53076.74
660	9572.0	243.47	54735.39
680	9862.0	250.85	56394.04
700	10152.1	258.23	58052.69
720	10442.2	265.61	59711.33
740	10732.2	272.99	61369.98
760	11022.3	280.36	63028.63

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
780	11312.3	287.74	64687.28
800	11602.4	295.12	66345.93
820	11892.5	302.50	68004.58
840	12182.5	309.88	69663.22
860	12472.6	317.25	71321.87
880	12762.6	324.63	72980.52
900	13052.7	332.01	74639.17
920	13342.8	339.39	76297.82
940	13632.8	346.77	77956.46
960	13922.9	354.14	79615.11
980	14212.9	361.52	81273.76
1000	14503.0	368.90	82932.41
1020	14793.1	376.28	84591.06
1040	15083.1	383.66	86249.71
1060	15373.2	391.03	87908.35
1080	15663.2	398.41	89567.00
1100	15953.3	405.79	91225.65
1120	16243.4	413.17	92884.30
1140	16533.4	420.55	94542.95
1160	16823.5	427.92	96201.59
1180	17113.5	435.30	97860.24
1200	17403.6	442.68	99518.89
1220	17693.7	450.06	101177.54
1240	17983.7	457.44	102836.19
1260	18273.8	464.81	104494.84
1280	18563.8	472.19	106153.48
1300	18853.9	479.57	107812.13
1320	19144.0	486.95	109470.78
1340	19434.0	494.33	111129.43
1360	19724.1	501.70	112788.08
1380	20014.1	509.08	114446.72
1400	20304.2	516.46	116105.37
1420	20594.3	523.84	117764.02
1440	20884.3	531.22	119422.67
1460	21174.4	538.59	121081.32
1480	21464.4	545.97	122739.97
1500	21754.5	553.35	124398.61

Hi-Force Limited
 Prospect Way - Daventry
 NN11 8PL NORTHANTS
 United Kingdom



PRESSURE TO FORCE CONVERSION CHART

CYLINDER

AREA cm²

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
20	290.1	10.08	2266.98
40	580.1	20.17	4533.97
60	870.2	30.25	6800.95
80	1160.2	40.34	9067.94
100	1450.3	50.42	11334.92
120	1740.4	60.50	13601.90
140	2030.4	70.59	15868.89
160	2320.5	80.67	18135.87
180	2610.5	90.76	20402.86
200	2900.6	100.84	22669.84
220	3190.7	110.92	24936.82
240	3480.7	121.01	27203.81
260	3770.8	131.09	29470.79
280	4060.8	141.18	31737.78
300	4350.9	151.26	34004.76
320	4641.0	161.34	36271.74
340	4931.0	171.43	38538.73
360	5221.1	181.51	40805.71
380	5511.1	191.60	43072.70
400	5801.2	201.68	45339.68
420	6091.3	211.76	47606.66
440	6381.3	221.85	49873.65
460	6671.4	231.93	52140.63
480	6961.4	242.02	54407.62
500	7251.5	252.10	56674.60
520	7541.6	262.18	58941.59
540	7831.6	272.27	61208.57
560	8121.7	282.35	63475.55
580	8411.7	292.44	65742.54
600	8701.8	302.52	68009.52
620	8991.9	312.60	70276.51
640	9281.9	322.69	72543.49
660	9572.0	332.77	74810.47
680	9862.0	342.86	77077.46
700	10152.1	352.94	79344.44
720	10442.2	363.02	81611.43
740	10732.2	373.11	83878.41
760	11022.3	383.19	86145.39

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
780	11312.3	393.28	88412.38
800	11602.4	403.36	90679.36
820	11892.5	413.44	92946.35
840	12182.5	423.53	95213.33
860	12472.6	433.61	97480.31
880	12762.6	443.70	99747.30
900	13052.7	453.78	102014.28
920	13342.8	463.86	104281.27
940	13632.8	473.95	106548.25
960	13922.9	484.03	108815.23
980	14212.9	494.12	111082.22
1000	14503.0	504.20	113349.20
1020	14793.1	514.28	115616.19
1040	15083.1	524.37	117883.17
1060	15373.2	534.45	120150.15
1080	15663.2	544.54	122417.14
1100	15953.3	554.62	124684.12
1120	16243.4	564.70	126951.11
1140	16533.4	574.79	129218.09
1160	16823.5	584.87	131485.07
1180	17113.5	594.96	133752.06
1200	17403.6	605.04	136019.04
1220	17693.7	615.12	138286.03
1240	17983.7	625.21	140553.01
1260	18273.8	635.29	142819.99
1280	18563.8	645.38	145086.98
1300	18853.9	655.46	147353.96
1320	19144.0	665.54	149620.95
1340	19434.0	675.63	151887.93
1360	19724.1	685.71	154154.91
1380	20014.1	695.80	156421.90
1400	20304.2	705.88	158688.88
1420	20594.3	715.96	160955.87
1440	20884.3	726.05	163222.85
1460	21174.4	736.13	165489.83
1480	21464.4	746.22	167756.82
1500	21754.5	756.30	170023.80

PRESSURE TO FORCE CONVERSION CHART

CYLINDER

AREA cm²

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
20	290.1	15.58	3501.64
40	580.1	31.15	7003.28
60	870.2	46.73	10504.92
80	1160.2	62.30	14006.56
100	1450.3	77.88	17508.20
120	1740.4	93.46	21009.84
140	2030.4	109.03	24511.48
160	2320.5	124.61	28013.12
180	2610.5	140.18	31514.77
200	2900.6	155.76	35016.41
220	3190.7	171.34	38518.05
240	3480.7	186.91	42019.69
260	3770.8	202.49	45521.33
280	4060.8	218.06	49022.97
300	4350.9	233.64	52524.61
320	4641.0	249.22	56026.25
340	4931.0	264.79	59527.89
360	5221.1	280.37	63029.53
380	5511.1	295.94	66531.17
400	5801.2	311.52	70032.81
420	6091.3	327.10	73534.45
440	6381.3	342.67	77036.09
460	6671.4	358.25	80537.73
480	6961.4	373.82	84039.37
500	7251.5	389.40	87541.01
520	7541.6	404.98	91042.65
540	7831.6	420.55	94544.30
560	8121.7	436.13	98045.94
580	8411.7	451.70	101547.58
600	8701.8	467.28	105049.22
620	8991.9	482.86	108550.86
640	9281.9	498.43	112052.50
660	9572.0	514.01	115554.14
680	9862.0	529.58	119055.78
700	10152.1	545.16	122557.42
720	10442.2	560.74	126059.06
740	10732.2	576.31	129560.70
760	11022.3	591.89	133062.34

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
780	11312.3	607.46	136563.98
800	11602.4	623.04	140065.62
820	11892.5	638.62	143567.26
840	12182.5	654.19	147068.90
860	12472.6	669.77	150570.54
880	12762.6	685.34	154072.18
900	13052.7	700.92	157573.83
920	13342.8	716.50	161075.47
940	13632.8	732.07	164577.11
960	13922.9	747.65	168078.75
980	14212.9	763.22	171580.39
1000	14503.0	778.80	175082.03
1020	14793.1	794.38	178583.67
1040	15083.1	809.95	182085.31
1060	15373.2	825.53	185586.95
1080	15663.2	841.10	189088.59
1100	15953.3	856.68	192590.23
1120	16243.4	872.26	196091.87
1140	16533.4	887.83	199593.51
1160	16823.5	903.41	203095.15
1180	17113.5	918.98	206596.79
1200	17403.6	934.56	210098.43
1220	17693.7	950.14	213600.07
1240	17983.7	965.71	217101.71
1260	18273.8	981.29	220603.36
1280	18563.8	996.86	224105.00
1300	18853.9	1012.44	227606.64
1320	19144.0	1028.02	231108.28
1340	19434.0	1043.59	234609.92
1360	19724.1	1059.17	238111.56
1380	20014.1	1074.74	241613.20
1400	20304.2	1090.32	245114.84
1420	20594.3	1105.90	248616.48
1440	20884.3	1121.47	252118.12
1460	21174.4	1137.05	255619.76
1480	21464.4	1152.62	259121.40
1500	21754.5	1168.20	262623.04

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CYLINDER

AREA cm²

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
20	290.1	21.99	4943.12
40	580.1	43.98	9886.24
60	870.2	65.96	14829.37
80	1160.2	87.95	19772.49
100	1450.3	109.94	24715.61
120	1740.4	131.93	29658.73
140	2030.4	153.92	34601.86
160	2320.5	175.90	39544.98
180	2610.5	197.89	44488.10
200	2900.6	219.88	49431.22
220	3190.7	241.87	54374.35
240	3480.7	263.86	59317.47
260	3770.8	285.84	64260.59
280	4060.8	307.83	69203.71
300	4350.9	329.82	74146.83
320	4641.0	351.81	79089.96
340	4931.0	373.80	84033.08
360	5221.1	395.78	88976.20
380	5511.1	417.77	93919.32
400	5801.2	439.76	98862.45
420	6091.3	461.75	103805.57
440	6381.3	483.74	108748.69
460	6671.4	505.72	113691.81
480	6961.4	527.71	118634.93
500	7251.5	549.70	123578.06
520	7541.6	571.69	128521.18
540	7831.6	593.68	133464.30
560	8121.7	615.66	138407.42
580	8411.7	637.65	143350.55
600	8701.8	659.64	148293.67
620	8991.9	681.63	153236.79
640	9281.9	703.62	158179.91
660	9572.0	725.60	163123.04
680	9862.0	747.59	168066.16
700	10152.1	769.58	173009.28
720	10442.2	791.57	177952.40
740	10732.2	813.56	182895.52
760	11022.3	835.54	187838.65

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
780	11312.3	857.53	192781.77
800	11602.4	879.52	197724.89
820	11892.5	901.51	202668.01
840	12182.5	923.50	207611.14
860	12472.6	945.48	212554.26
880	12762.6	967.47	217497.38
900	13052.7	989.46	222440.50
920	13342.8	1011.45	227383.62
940	13632.8	1033.44	232326.75
960	13922.9	1055.42	237269.87
980	14212.9	1077.41	242212.99
1000	14503.0	1099.40	247156.11
1020	14793.1	1121.39	252099.24
1040	15083.1	1143.38	257042.36
1060	15373.2	1165.36	261985.48
1080	15663.2	1187.35	266928.60
1100	15953.3	1209.34	271871.73
1120	16243.4	1231.33	276814.85
1140	16533.4	1253.32	281757.97
1160	16823.5	1275.30	286701.09
1180	17113.5	1297.29	291644.21
1200	17403.6	1319.28	296587.34
1220	17693.7	1341.27	301530.46
1240	17983.7	1363.26	306473.58
1260	18273.8	1385.24	311416.70
1280	18563.8	1407.23	316359.83
1300	18853.9	1429.22	321302.95
1320	19144.0	1451.21	326246.07
1340	19434.0	1473.20	331189.19
1360	19724.1	1495.18	336132.32
1380	20014.1	1517.17	341075.44
1400	20304.2	1539.16	346018.56
1420	20594.3	1561.15	350961.68
1440	20884.3	1583.14	355904.80
1460	21174.4	1605.12	360847.93
1480	21464.4	1627.11	365791.05
1500	21754.5	1649.10	370734.17

PRESSURE TO FORCE CONVERSION CHART

CYLINDER

AREA cm²

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
20	290.1	33.11	7443.91
40	580.1	66.22	14887.82
60	870.2	99.34	22331.73
80	1160.2	132.45	29775.63
100	1450.3	165.56	37219.54
120	1740.4	198.67	44663.45
140	2030.4	231.78	52107.36
160	2320.5	264.90	59551.27
180	2610.5	298.01	66995.18
200	2900.6	331.12	74439.09
220	3190.7	364.23	81883.00
240	3480.7	397.34	89326.90
260	3770.8	430.46	96770.81
280	4060.8	463.57	104214.72
300	4350.9	496.68	111658.63
320	4641.0	529.79	119102.54
340	4931.0	562.90	126546.45
360	5221.1	596.02	133990.36
380	5511.1	629.13	141434.27
400	5801.2	662.24	148878.17
420	6091.3	695.35	156322.08
440	6381.3	728.46	163765.99
460	6671.4	761.58	171209.90
480	6961.4	794.69	178653.81
500	7251.5	827.80	186097.72
520	7541.6	860.91	193541.63
540	7831.6	894.02	200985.54
560	8121.7	927.14	208429.44
580	8411.7	960.25	215873.35
600	8701.8	993.36	223317.26
620	8991.9	1026.47	230761.17
640	9281.9	1059.58	238205.08
660	9572.0	1092.70	245648.99
680	9862.0	1125.81	253092.90
700	10152.1	1158.92	260536.81
720	10442.2	1192.03	267980.71
740	10732.2	1225.14	275424.62
760	11022.3	1258.26	282868.53

PRESSURE (bar)	PRESSURE (psi)	FORCE (Kn)	FORCE (lbf)
780	11312.3	1291.37	290312.44
800	11602.4	1324.48	297756.35
820	11892.5	1357.59	305200.26
840	12182.5	1390.70	312644.17
860	12472.6	1423.82	320088.07
880	12762.6	1456.93	327531.98
900	13052.7	1490.04	334975.89
920	13342.8	1523.15	342419.80
940	13632.8	1556.26	349863.71
960	13922.9	1589.38	357307.62
980	14212.9	1622.49	364751.53
1000	14503.0	1655.60	372195.44
1020	14793.1	1688.71	379639.34
1040	15083.1	1721.82	387083.25
1060	15373.2	1754.94	394527.16
1080	15663.2	1788.05	401971.07
1100	15953.3	1821.16	409414.98
1120	16243.4	1854.27	416858.89
1140	16533.4	1887.38	424302.80
1160	16823.5	1920.50	431746.71
1180	17113.5	1953.61	439190.61
1200	17403.6	1986.72	446634.52
1220	17693.7	2019.83	454078.43
1240	17983.7	2052.94	461522.34
1260	18273.8	2086.06	468966.25
1280	18563.8	2119.17	476410.16
1300	18853.9	2152.28	483854.07
1320	19144.0	2185.39	491297.98
1340	19434.0	2218.50	498741.88
1360	19724.1	2251.62	506185.79
1380	20014.1	2284.73	513629.70
1400	20304.2	2317.84	521073.61
1420	20594.3	2350.95	528517.52
1440	20884.3	2384.06	535961.43
1460	21174.4	2417.18	543405.34
1480	21464.4	2450.29	550849.25
1500	21754.5	2483.40	558293.15