



SPOTWELD Incorporated
Excellence in Resistance Welding

**PRESSURE BY FORCE EXERTED BY VARIOUS AIR CYLINDERS AT AIR PRESSURES FROM 30 TO 100 PSI.
PISTON RODS AND PACKING LOSSES NEGLECTED.**

Cyl. Diam. In.	Cyl. Area Sq. In.	PRESSURE, PSI., GAGE							
		30	40	50	60	70	80	90	100
1	0.7854	24	31	39	47	55	63	71	79
2	3.1416	94	126	157	188	220	251	283	314
2.5	4.91	147	196	245	295	344	393	442	491
3	7.07	212	283	353	424	495	565	636	707
3.5	9.62	289	385	481	577	673	770	866	962
4	12.57	377	503	628	754	880	1,005	1,131	1,257
4.5	15.90	477	636	795	954	1,113	1,272	1,431	1,590
5	19.64	589	785	982	1,178	1,374	1,571	1,767	1,963
6	28.27	848	1,131	1,414	1,696	1,979	2,262	2,545	2,827
7	38.49	1,155	1,539	1,924	2,309	2,694	3,079	3,464	3,848
8	50.27	1,508	2,011	2,513	3,016	3,519	4,021	4,524	5,027
9	63.62	1,909	2,545	3,181	3,817	4,453	5,089	5,726	6,362
10	78.54	2,356	3,142	3,927	4,712	5,498	6,283	7,069	7,854
12	113.10	3,393	4,524	5,655	6,786	7,917	9,048	10,179	11,310
14	153.94	4,618	6,158	7,697	9,236	10,776	12,315	13,854	15,394
16	201.06	6,032	8,042	10,053	12,064	14,074	16,085	18,096	20,106
18	254.47	7,634	10,179	12,723	15,268	17,813	20,358	22,902	25,447
20	314.16	9,425	12,566	15,708	18,850	21,991	25,133	28,274	31,416

For Hydraulic pressures, multiply pressure per sq. in. and resultant pressures by 10.