

Force Chart, Pounds

The following chart is presented to show the potential energy contained in systems where Bradford™ fittings are found. It is a reminder to be sure systems are safe and secure before any disassembly work is attempted.

Line Pressure (PSI) Applied

	25	50	75	100	150	200	250
0.50	3	5	8	11	16	22	27
0.75	8	15	23	30	45	60	75
1.00	15	30	45	59	89	119	149
1.50	37	74	111	147	221	295	369
2.00	69	137	206	275	412	549	687
2.50	110	221	331	441	662	882	1,103
3.00	162	323	485	647	970	1,294	1,617
4.00	288	577	865	1,153	1,730	2,307	2,883
6.00	656	1,313	1,969	2,626	3,939	5,251	6,564
8.00	1,182	2,365	3,547	4,729	7,094	9,459	11,824
10.00	1,879	3,758	5,636	7,515	11,273	15,031	18,788
12.00	2,715	5,431	8,146	10,862	16,293	21,724	27,155

Line Pressure (PSI) Applied

	300	500	600	800	1,000	1,200	1,500
0.50	32	54	65	86	108	129	161
0.75	91	151	181	242	302	362	453
1.00	178	297	357	476	594	713	892
1.50	442	737	884	1,179	1,474	1,769	2,211
2.00	824	1,373	1,648	2,197	2,746	3,296	4,120
2.50	1,323	2,206	2,647	3,529	4,412	5,294	6,617
3.00	1,941	3,235	3,882	5,175	6,469	7,763	9,704
4.00	3,460	5,766	6,920	9,226	11,533	13,840	17,299
6.00	7,877	13,129	15,754	21,006	26,257	31,509	39,386
8.00	14,188	23,647	28,377	37,836	47,295	56,754	70,942
10.00	22,546	37,576	45,092	60,122	75,153	90,184	112,729
12.00	32,586	54,309	65,171	86,895	108,619	130,343	162,928

- Please note that tubing is measured in Outside Diameter (OD).
- Force is the dynamic power that is exported longitudinally through a tube, towards the ends.
- To arrive at the number of pounds of force exerted, multiply the area of the Inside Diameter (ID) times the working pressure used.
- Area of a circle: $\pi \times r^2$ (Pi [3.14156] times the radius of the circle squared).
- Force = Area x Pressure
- **The shaded pressure areas are beyond the capacity of high pressure clamps at room temperature (70°F)**



Dixon Sanitary
 N25 W23040 Paul Road
 Pewaukee, WI 53072
 Ph: 800.789.1718
 Fax: 800.789.4046