

## Class 1

Torques (Inch-Pounds)

Shutoff Pressure	2"	2_"	3"	4"	5"	6"	8"	10"	12"
50 PSI Shutoff	66	96	150	225	350	450	750	1325	2250
75 PSI Shutoff	74	106	178	258	378	489	788	1334	2243
100 PSI Shutoff	78	111	187	271	399	514	829	1404	2361
125 PSI Shutoff	81	117	195	282	415	536	868	1463	2460
150 PSI Shutoff	83	119	199	288	423	546	882	1492	2509
175 PSI Shutoff	91	132	213	313	474	611	1003	1740	2943
200 PSI Shutoff	99	144	225	338	525	675	1125	1988	3375
250 PSI Shutoff	109	158	241	365	578	743	1249	2246	3881
285 PSI Shutoff	120	174	265	402	635	817	1399	2516	4347

### Class 1

- Valve to be operated a minimum of once a day.
- Temperature well within resilient seat limits.
- Line media is a self-lubricating. (Water, Clean, oils, ect.)
- No chemical attacks on disc or seat.
- No media deposits on disc edge.

### Notes:

1. This chart is to be used as a guideline only.
2. These torque ratings do not apply to every possible service criteria, which may effect seating and unseating torque.
3. Torque values are applicable to Flow Line series 70/71
4. Do not apply a safety factor to the above torque values when sizing actuators.
5. Dynamic torque should always be a consideration when sizing valves with higher differential pressures.
6. For 3 way tee assemblies multiply the above torque's by 1.5

## Class II

Torques (Inch-Pounds)

Shutoff Pressure	2"	2_"	3"	4"	5"	6"	8"	10"	12"
50 PSI Shutoff	66	96	150	225	350	450	750	1325	2250
75 PSI Shutoff	98	141	237	343	504	651	1050	1778	2990
100 PSI Shutoff	103	148	249	261	531	685	1105	1872	3147
125 PSI Shutoff	107	155	260	376	553	714	1151	1950	3279
150 PSI Shutoff	110	158	265	384	564	728	1775	1989	3345
175 PSI Shutoff	121	175	283	417	632	814	1337	2320	3923
200 PSI Shutoff	132	192	300	450	700	900	1500	2650	4500
250 PSI Shutoff	145	211	318	486	770	990	1695	2995	5085
285 PSI Shutoff	160	232	337	528	847	1089	1915	3384	5746

### Class II

- Valve to be operated a minimum of once a month.
- Temperature well within resilient seat limits.
- Line media is a self-lubricating. (Aqueous liquids)
- Minor chemical attacks on seat.
- Disc corrosion and media deposits to be mild.

### Notes:

1. This chart is to be used as a guideline only.
2. These torque ratings do not apply to every possible service criteria, which may effect seating and unseating torque.
3. Torque values are applicable to Flow Line series 70/71
4. Do not apply a safety factor to the above torque values when sizing actuators.
5. Dynamic torque should always be a consideration when sizing valves with higher differential pressures.
6. For 3 way tee assemblies multiply the above torque's by 1.5

## Class III

Torques (Inch-Pounds)

Shutoff Pressure	2"	2_"	3"	4"	5"	6"	8"	10"	12"
50 PSI Shutoff	83	120	188	282	438	563	938	1657	2813
75 PSI Shutoff	123	106	297	429	630	814	1313	2223	3736
100 PSI Shutoff	129	185	312	452	664	857	1382	2340	3934
125 PSI Shutoff	134	194	325	470	692	893	1439	2438	4099
150 PSI Shutoff	138	198	332	480	705	910	1469	2487	4182
175 PSI Shutoff	152	219	354	522	790	1018	1672	2900	4904
200 PSI Shutoff	165	240	375	563	875	1125	1875	3113	5625
250 PSI Shutoff	180	262	398	608	963	1204	2100	3424	6188
285 PSI Shutoff	198	288	421	657	1059	1324	2310	3767	6806

### Class III

- Valve to be operated infrequently.
- Temperature is at extreme limits.
- Non Lubricating live media, (hot air, dry bulk).
- Chemical attacks on seat to severe.
- Media deposits and corrosion on disc edge moderate to severe.

### Notes:

1. This chart is to be used as a guideline only.
2. These torque ratings do not apply to every possible service criteria, which may effect seating and unseating torque.
3. Torque values are applicable to Flow Line series 70/71
4. Do not apply a safety factor to the above torque values when sizing actuators.
5. Dynamic torque should always be a consideration when sizing valves with higher differential pressures.
6. For 3 way tee assemblies multiply the above torque's by 1.5