

Operating Torque for Resilient Seal Butterfly Valves
Torque is a Function of Fluid Type and Differential Pressure
(lb-in)

FLUID	VALVE SIZE (INCHES)	VALVE SIZE (DN NUMBER)	25 PSID	50 PSID	75 PSID	100 PSID	125 PSID	150 PSID	175 PSID	200 PSID
FOR OILS AND LUBRICATING LIQUIDS	1.5	40	39	39	40	41	42	43	45	46
	2"	50	50	51	52	53	55	56	58	60
	2.5	65	60	61	63	65	68	69	70	73
	3	80	74	80	83	89	94	100	102	104
	4	100	120	130	145	156	168	180	190	200
	5	125	185	210	230	250	275	300	310	340
	6	150	280	320	360	400	445	485	530	580
	8	200	500	580	650	750	830	920	1000	1080
	10	250	800	900	1070	1200	1480	1600	1700	1800
	12	300	1200	1480	1700	1800	2190	2400	2650	2900
	14	350	1790	2190	2435	2670	3030	3340		
	16	400	2310	2970	3340	3670	4200	4755		
	18	450	3055	3790	4320	4835	5620	6375		
	20	500	3805	4795	5410	6170	7275	8190		
24	600	5615	6370	7980	9000	10632	11800			
FOR WATER AND OTHER NON LUBRICATING LIQUIDS	1.5"	40	77	78	79	85	89	91	92	94
	2"	50	100	101	103	110	115	118	120	122
	2.5	65	105	107	108	112	118	120	125	128
	3	80	160	166	172	180	183	186	190	195
	4	100	273	285	298	310	323	335	348	360
	5	125	420	440	465	485	510	530	550	575
	6	150	625	660	700	745	790	825	870	900
	8	200	1100	1200	1280	1350	1450	1520	1600	1690
	10	250	1700	1900	2000	2210	2390	2550	2700	2880
	12	300	2500	2800	3100	3300	3580	3800	4100	4360
	14	350	3804	4164	4428	4800	5160	5508		
	16	400	4920	5508	6000	6600	7152	7608		
	18	450	6504	7200	8004	8700	9552	10200		
	20	500	8064	9108	10008	11100	12000	13104		
24	600	11904	13500	14760	16200	17544	18888			
FOR NON LUBRICATING DRY GASES	1.5	40	131	132	133	134	136	137	139	141
	2"	50	170	171	173	174	176	178	181	183
	2.5	65	240	245	248	250	253	257	260	263
	3	80	336	342	348	360	370	365	380	385
	4	100	570	585	595	610	620	635	645	660
	5	125	760	800	835	870	900	935	970	1000
	6	150	1250	1300	1350	1400	1440	1500	1540	1580
	8	200	2350	2440	2520	2600	2670	2700	2830	2900
	10	250	3700	3900	4000	4200	4400	4500	4700	4900
	12	300	5300	5580	5800	6100	6300	6600	6850	7100
	14	350	5706	6246	6642	7200	7740	8262		
	16	400	7380	8262	9000	9900	10700	11400		
	18	450	9756	10800	12000	13050	14328	15300		
	20	500	12096	13662	15012	16650	18000	19650		
24	600	17856	20250	22146	243000	26300	28330			