

# ACTUATION SIZING CHARTS

OPERATING TORQUE (IN./LBS.) – MILWAUKEE VALVE “M & C” SERIES BUTTERFLY VALVES									
Required at valve stem at pressure differentials indicated.									
Fluid	Valve Size	25 psi	50 psi	75 psi	100 psi	125 psi	150 psi	175 psi	200 psi
For Oils and Similar Lubricating Liquids	2	50	51	52	53	55	56	58	60
	2-1/2	60	61	63	65	68	69	70	73
	3	74	80	83	89	94	100	102	104
	4	120	130	145	156	168	180	190	200
	5	185	210	230	250	275	300	310	340
	6	280	320	360	400	445	485	530	580
	8	500	580	650	750	830	920	1000	1080
	10	800	900	1070	1200	1480	1600	1700	1800
	12	1200	1480	1700	1800	2190	2400	2650	2900
	14	1790	2190	2435	2670	3030	3340		
	16	2310	2970	3340	3670	4200	4755		
	18	3055	3790	4320	4835	5620	6375		
	20	3805	4795	5410	6170	7275	8190		
24	5615	6370	7980	9000	10632	11800			
For Water and Other Non-Lubricating Liquids	2	100	101	103	110	115	118	120	122
	2-1/2	105	107	108	112	118	120	125	128
	3	160	166	172	180	183	186	190	195
	4	273	285	298	310	323	335	348	360
	5	420	440	465	485	510	530	550	575
	6	625	660	700	745	790	825	870	900
	8	1100	1200	1280	1350	1450	1520	1600	1690
	10	1700	1900	2000	2210	2390	2550	2700	2880
	12	2500	2800	3100	3300	3580	3800	4100	4360
	14	3804	4164	4428	4800	5160	5508		
	16	4920	5508	6000	6600	7152	7608		
	18	6504	7200	8004	8700	9552	10200		
	20	8064	9108	10008	11100	12000	13104		
24	11904	13500	14760	16200	17544	18888			
For Gases Including Non-Lubricating of Dry Gases	2	170	171	173	174	176	178	181	183
	2-1/2	240	245	248	250	253	257	260	263
	3	336	342	348	360	370	365	380	385
	4	570	585	595	610	620	635	645	660
	5	760	800	835	870	900	935	970	1000
	6	1250	1300	1350	1400	1440	1500	1540	1580
	8	2350	2440	2520	2600	2670	2700	2830	2900
	10	3700	3900	4000	4200	4400	4500	4700	4900
	12	5300	5580	5800	6100	6300	6600	6850	7100
	14	5706	6246	6642	7200	7740	8262		
	16	7380	8262	9000	9900	10700	11400		
	18	9756	10800	12000	13050	14328	15300		
	20	12096	13662	15012	16650	18000	19650		
24	17856	20250	22146	243000	26300	28330			

Valve Size	Operating Torque (IN.LBS.) - Large Diameter Butterflies*					
	50 PSI		100 PSI		150 PSI	
	Wet	Dry	Wet	Dry	Wet	Dry
30"	31,500	46,750	34,000	51,000	36,750	55,000
36"	44,750	69,250	47,930	71,750	51,250	76,750
42"	76,750	115,250	78,750	123,250	88,000	131,750
48"	106,500	160,250	119,750	171,500	122,000	183,500

\* Operating Torques Based on EPDM/Buna at Ambient Temperature Rev. 2

The information presented on this sheet is correct at the time of publication. Milwaukee Valve reserves the right to change design, and/or material specifications without notice. For the Installation, Operation and Maintenance Manual (IOM) see the engineering section on our website. For the most current information access [www.milwaukeevalve.com](http://www.milwaukeevalve.com)

