



Valve Torque Data For M Series Valve NPT-SW-Flanged

Standard Seats(PTFE)

Size\Pressure	P difference-pressure unit: in-lb					
	75psi 5Bar	150psi 10Bar	300psi 20Bar	700psi 50Bar	1000psi 63Bar	1500psi 100Bar
1/4",3/8"	45	45	45	45	45	45
1/2"	60	60	60	60	60	60
3/4"	80	80	80	80	80	80
1"	130	130	130	130	130	130
1-1/4"	160	160	160	180	190	220
1-1/2"	200	200	260	300	350	400
2"	300	375	400	450	480	550
2-1/2"	550	600	620	800	N/A	N/A
3"	700	800	900	1300	N/A	N/A
4"	1300	1500	1900	2400	N/A	N/A
5"	1900	2000	2300	3200	N/A	N/A
6"	2500	2700	3000	4500	N/A	N/A
8"	3500	3800	4300	6600	N/A	N/A
10"	7300	8500	9700	14200	N/A	N/A
12"	11500	12000	13300	21200	N/A	N/A

Cavity filled Seats(PTFE)

Size\Pressure	P difference-pressure unit: in-lb					
	75psi 5Bar	150psi 10Bar	300psi 20Bar	700psi 50Bar	1000psi 63Bar	1500psi 100Bar
1/2"	70	70	70	70	70	80
3/4"	90	90	90	90	110	130
1"	140	140	140	160	180	200
1-1/4"	180	180	190	230	270	300
1-1/2"	220	220	290	400	500	600
2"	360	400	450	550	650	750
2-1/2"	600	660	700	900	N/A	N/A
3"	760	870	920	1500	N/A	N/A
4"	1400	1600	2000	2500	N/A	N/A

Multi port Ball Valve Seats(PTFE) For Series 30M,33M

Max Break-away torque in-lb

SIZE	TORQUE
3/8"	80
1/2"	90
3/4"	100
1"	150
1-1/4"	200
1-1/2"	350
2"	450
2-1/2"	800
3"	1500
4"	3000
6"	5000

-Valve torques are for full port ball valves,use one size smaller for reduced port.

-Torque Values can vary depending upon temperature, pressure, line medium and seat materials,

-Above figures are for clean fluids only

-Increase torques by 15% for dry gases and 35% for fluids with solids or abrasive contents

PMP Precision Valve Company Ltd. Is a progressive supplier of current products. The features, materials of construction and dimensional data as detailed in this bulletin are intended for your reference only, and should not be relied upon unless confirmed in writing by PMP Precision Valve Co. Ltd.. Certified dimensional drawings are available upon order receipt