



Series 310 Metal Seated stem torques (in. lbs.)

Seat Seal Code 60

Valve Bore Size (in.)	Pressure Differential (psi.)								
	0-285	500	740	1000	1500	2000	2250	2500	3000
1/4" Full Port	96	96	96	100	110	120	140	170	200
3/8" Full Port	96	96	96	100	110	120	140	170	200
1/2" Reduced Port	96	96	96	100	110	120	140	170	200
1/2" Full Port	116	120	128	140	180	240	280	330	430
3/4" Reduced Port	116	120	128	140	180	240	280	330	430
3/4" Full Port	180	190	210	250	350	460	520	590	740
1" Reduced Port	180	190	210	250	350	460	520	590	740
1" Full Port	450	490	520	560	640	800	910	1040	1400
1 1/2" Full Port	780	820	900	1020	1400	1840	2100	2400	3100
2" Reduced Port	780	820	900	1020	1400	1840	2100	2400	3100
2" Full Port	1720	1920	2150	2420	3000	3660	4000	4400	5200
3" Reduced Port	1720	1920	2150	2420	3000	3660	4000	4400	5200
3" Full Port	2900	3270	3770	4440	6100	-	-	-	-
4" Reduced Port	2900	3270	3770	4440	6100	-	-	-	-
4" Full Port	4800	6600	8400	-	-	-	-	-	-
6" Reduced Port	4800	6600	8400	-	-	-	-	-	-
6" Full Port	10800	16400	22400	-	-	-	-	-	-
8" Reduced Port	10800	16400	22400	-	-	-	-	-	-
8" Full Port	20000	30000	40600	-	-	-	-	-	-
10" Reduced Port	20000	30000	40600	-	-	-	-	-	-
10" Full Port	32000	46000	61000	-	-	-	-	-	-
12" Reduced Port	32000	46000	61000	-	-	-	-	-	-
12" Full Port	64000	78000	93000	-	-	-	-	-	-

NOTE:

- 1) Torque values are based on clean, lubricating, non-corrosive media at ambient temperatures
- 2) For valves with pressure less than 285 psi, use 285 psi torque value
- 3) Torque values are based on breaking and seating requirements, run torque averages approx. 2/3 of the posted value
- 4) Posted torque values do not contain any safety factors
- 5) Actuator selection should always be made based on process experience and appropriate service safety factors