

BALON FLOATING BALL VALVE ACTUATOR TORQUE DATA

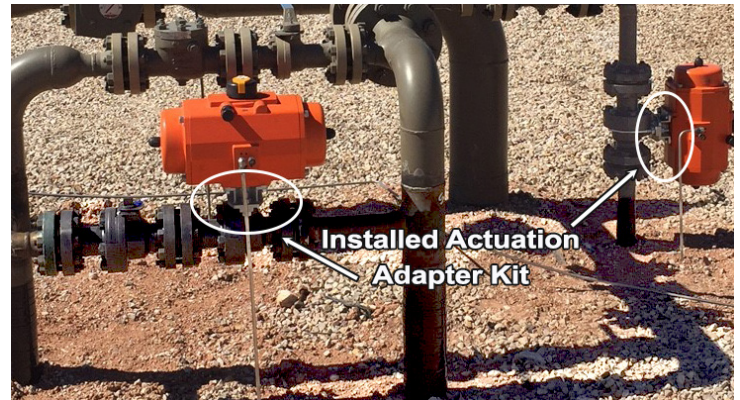
Balon Lever Operated Floating Ball Valves: Balon offers a valve actuation package for Balon ball valves 1" bore and larger. Balon's value added approach to valve automation has made the actuation of Balon ball valves, either currently in service or new valves, simplistic while adhering to the highest levels of quality and accuracy our customers expect. With the exception of the actuator, Balon's actuation package will include everything required to safely and precisely mount an actuator to a floating Balon ball valve. Balon's standard off the shelf actuation mount package offering includes ISO 5211 bolt circles and parallel square drive. Balon can also accommodate certain actuators using nonstandard bolt patterns or drive options. Please contact the Balon sales department if you have any questions or need further information.

Balon Gear Operated Floating Ball Valves: Balon offers a rugged four bolt mounting surface for all gear operated floating Balon ball valves. The actuation mounting surface can either be installed at the factory or can be installed while the valve is in service.

The breakaway torque values listed below do not contain any service or safety factors and are adequate for the operation of Balon ball valves equipped with standard seats and used to control clean liquid or gas at ambient temperature.

The run torque is approximately 50%, or one-half, of the breakaway torque. The re-seat torque is approximately 75%, or three-quarters, of the breakaway torque.

Corrosion, scale, build-up on the ball, or other service conditions can drastically alter torque requirements and should be given consideration when selecting actuation or automation equipment.



Balon Floating Ball Valve Torques (inch pounds)

BORE	Maximum Differential Pressure (PSI)										MAST
(in.)	285	740	1000	1480	2000	2220	2500	3000	3705	5000	(in.lbs)
1.0	210	230	260	300	370	390	420	450	-	-	1,297
1.5	390	490	590	730	840	910	1,000	1,120	1,240	1,500	2,926
2.0	820	1,090	1,360	1,570	1,780	2,030	2,250	2,350	-	-	4,542
3.0	1,290	1,950	2,180	2,380	3,590	4,900	-	-	-	-	11,015
4.0	1,730	2,280	3,600	4,800	-	-	-	-	-	-	*11,015
6.0	5,250	6,820	9,000	11,700	-	-	-	-	-	-	21,222
8.0	11,250	-	-	-	-	-	-	-	-	-	40,403
	150	300		600		900			1,500		

* 4" Bore 600 Class MAST = 16164 in.lbs.

Note:

Values are raw torque values for new valves and standard seat materials.

Values contain no service factors.

Customer should determine appropriate service factors.

Use the 285 psi. torque value for pressure differentials of 285 psi. & below.

Intermediate torque values can be determined using linear interpolation.

(i.e. torque values for pressures that lie between those listed in the chart)