

BALON TRUNNION ACTUATOR TORQUE DATA

Balon Trunnion Ball Valves -Balon offers a rugged four or eight bolt mounting surface for Balon trunnion 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 Trunnion Ball Valve Torques (inch pounds)

ANSI CLASS	BORE (in.)	Maximum Differential Pressure (PSI)						MAST (in.lbs)
		285	740	1000	1480	2000	2220	
600	4.0	1,300	2,160	2,650	3,570	-	-	16,163
900	4.0	1,300	2,160	2,650	3,570	4,250	4,540	16,163
600	6.0	3,570	6,310	6,490	6,800	-	-	21,222
300	8.0	5,750	9,730	-	-	-	-	40,403
600	8.0	5,750	9,730	11,910	15,950	-	-	40,403
150	10.0	20,400	-	-	-	-	-	40,403
300	10.0	20,400	20,830	-	-	-	-	104,250
600	10.0	20,400	20,830	21,230	21,970	-	-	104,250
150	12.0	27,000	-	-	-	-	-	104,250
300	12.0	17,700	26,870	-	-	-	-	104,250
600	12.0	17,700	26,870	32,010	41,520	-	-	104,250

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)