



## Inspection and Maintenance of RegO® 4 Bolt Flanged BK Series Globe Valves BK9410, BK9412, BK9416

In its continuing quest for safety and quality performance, RegO publishes a series of bulletins explaining the proper installation, inspection, and maintenance of various products. This document is not intended to conflict with federal, state, or local ordinances or regulations; these regulations should be observed at all times.

### Objective:

The purpose of this bulletin is to offer guidance for the inspection and maintenance of RegO globe valves BK9410, BK9412 & BK9416. Prior to following the procedures in this document, be sure to locate and verify the model number on the valve (see bottom of next page for guidance).

### Initial and Scheduled Inspection:

#### Check for:

- Any signs of corrosion due to water, salt, industrial pollutants, chemicals, and roadway contaminants
- Any visible physical damage that would prevent proper sealing and usage or that may cause product failure under pressure
- Leaks in the valve bonnet area, body, end connections, and packing system of the valve
- Keep all equipment clean, and replace damaged equipment immediately

#### Do not check for:

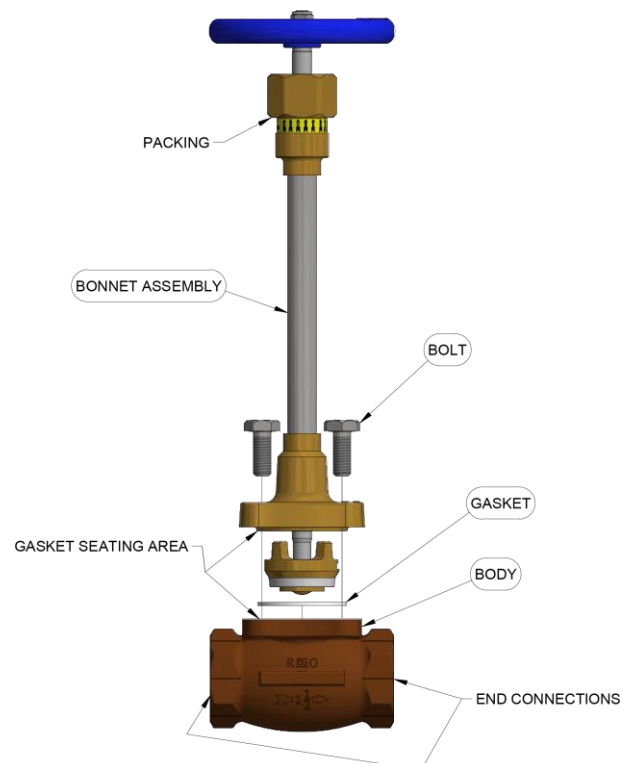
- Torque value of the bolts, as checking bolt torques can cause loosening of the bolts

**NOTE:** It is recommended to retorque bolts **ONLY** if a leak has been detected; follow the steps indicated in the section “Valve Maintenance – Leak”.

### Valve Maintenance – Leak:

#### Tools:

- Torque wrench
  - 7/8” socket (BK9410 & BK9412 globe valve bolts)
  - 13/16” socket (BK9416 globe valve bolts)
- BK9400-350 Instruction Sheet



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**Procedure:**

- Warm up valve to as close to room temperature as possible.

**WARNING:** Valve maintenance at low temperatures can cause gasket failure. The replacement of the gasket and retorque must be done warm.

- For BK9410 & BK9412 globe valves, retorque the bolts in a crisscross pattern to 200 in-lbs (16.7 ft-lbs).
- For BK9416 globe valves, retorque the bolts in a crisscross pattern to 220 in-lbs (18.3 ft-lbs).
- Flow media through valve. If the valve is still leaking, warm up the valve, and retorque 100 in-lbs more than the previous value.
- If the valve continues to leak after the second retorque, warm up valve, and retorque to the “Final” value on the Initial Installation Torque Chart pertaining to the specific valve size.
- If leaking persists, replace the gasket following the procedures in BK9400-350. It is essential that the correct gasket is installed and replaced any time the top works is removed; see the “Gasket” column in the below table for this information.

Initial Installation Torque Chart								
Part Number	Valve Size	Bolt Size	1st	2nd	3rd	Final	Unit	Gasket
BK9410	1 1/4"	1/2"	110	225	340	450	in-lbs	B-8511-6TP
BK9412	1 1/2"		(12)	(25)	(38)	(51)	(Nm)	B-8511-6TP
BK9416	2"	9/16"	125	250	375	500	in-lbs	BK9416-83
			(14)	(28)	(42)	(56)	(Nm)	

**Notes:**

- If the valve is not leaking, do NOT retorque the bolts.
- RegO does not recommend the application of lubricant or grease on the gaskets, gasket sealing areas, or bolts.
- Verify the model number of the valve is either BK9410, BK9412, or BK9416 by locating the information stamped on the valve as seen below.



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