



Packaged Gas Division

Technical Service Bulletin

Trifecta Magnatrol Valve Hand wheels **Date:** 8/7/2018 **TSB-HPS-1021**

Issue: Customers have reported that there have been past incidents where the hand wheel assemblies have been found on the ground or came disengaged while trying to open them. In addition, overtightening the body bolts can also cause the valve to stick open or closed. Technicians are not following the recommended torque specs for these bolts.

Models Affected: All Trifecta® Gas Supply Systems with Magnatrol valves that have manual override.

Solution: Magnatrol has added a Torque specification for the manual override hub which threads into the valve body. The torque specification of 35-37 foot-pounds has been implemented into their assembly procedure. It is also recommended that technicians check the tightness of these hubs and re-torque them on a periodic basis. It is also good operating practice to ensure that the hub is properly tightened before attempting to manually open the valve. Body bolts should be torqued to 10 ft lbs.



Torque body bolts to 10 foot-pounds. Use 1/2" Crow foot on 1/2" and 3/4" valves. On 1" valves use 9/16" crow foot.

Torque override hub to 35-37 foot-pounds. Use 1 1/16" crow foot.

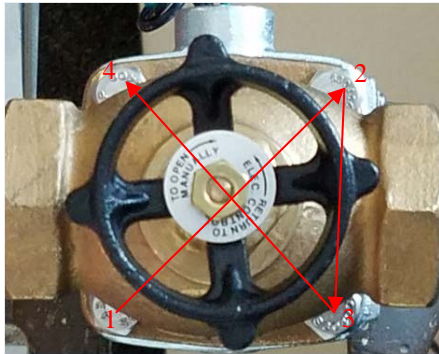
Tighten the packing nut sufficiently to withstand leakage. Over tightening will cause the valve to be difficult to cycle.



Use a crow foot style socket 1 1/16" to properly torque the override hub.



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The crow foot should be at 90° to the wrench and the bolt should be tightened in a cross pattern. See bolt tightening sequence shown in photo. Tighten sequentially from 1-2-3-4.

Contact: Chart's continuous attention to product improvement and customer satisfaction has resulted in this technical bulletin. We will continue to listen to our customers and look for ways to improve our designs and streamline our processes. If you have concerns or questions relative to this action, please contact your Chart Customer Service Representative at (800) 400-4683. Thank you for depending on Chart to provide high product quality and service.