



## Packaged Gas Division

# Technical Service Bulletin

**Component Change**

**Date:** March 8, 2019

**TSB-MBS-1026**

**Issue:** Underrated bushing installed in bulk fill assembly.

**Models Affected:** Any Perma-Cyl® 5500 VHP MicroBulk Storage System that was ordered with one of the optional bulk fill connection kits shown below:

20934200	5500 Bulk Fill Kit Nit 1 ½ “
20934203	5500 Bulk Fill Kit Oxy 1 ½ “
20934204	5500 Bulk fill Kit Argon 1 ½”

Tanks with the bulk fill connection that is included in the 1” high flow plumbing option kit (p/n 21151429) do not use this bushing and are not affected.

**Description:** Due to a vendor error, the reducing bushing in the bulk fill assembly is underrated for high-pressure use or MAWP that would exceed 300 psi.

The parts in question were to be supplied as B16.11, or forged high pressure fittings. Instead, they had been supplied as SP-114 cast fittings, which have a pressure rating of 300 psi max. This will impact units built since mid-2014.

The SP-114 parts that are presently in the field do not pose any immediate danger. The safety factors built in to B16.3, which govern these parts, will allow the parts to peak at 33% over MAWP or 400 psi. More importantly, we have tested 5 random parts in our lab at over 9,000 psi with no signs of failure. We are not suggesting that these parts can be rated for high pressure use based on this, it just means the likelihood of a part failure in use is very low.



We do recommend that these parts be replaced as soon as convenient. Chart will provide replacement B16.11 parts, which are properly rated. The part number for the proper fitting is 11803562.

We have quarantined and replaced all suspect parts prior to shipment as of 2/26/2019. Any units shipped after that date have had their bushings replaced.

We apologize for this inconvenience and with your help, we hope to have this remedied as soon as possible.

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