



# Technical Bulletin (TB-0059)

## GSD Compressor DV2 Upgrades

Version 1, January 2017

This document provides a summary of the changes that have been made to the GSD series scroll compressors. For both the GSD6 series and the GSD8 series, these changes are identified with the number “2” in the last (14<sup>th</sup>) digit of the model number. To differentiate the new design from the existing, the upgraded series of compressor is referred to as **Design Variable 2 or DV2**.

1	2	3	4	5,6,7,8	9	10	11	12	13	14
Model	Config	Refrigerant	Series	Capacity	Oil	Application	Connection	Nominal Voltage	Motor Protection	Variable
<b>G</b>	<b>S</b>	<b>D</b>	<b>8</b>	<b>0385</b>	<b>V</b>	<b>A</b>	<b>B</b>	<b>4</b>	<b>3</b>	<b>2</b>

As a result of these improvements, there are several changes that affect the application of these compressors.

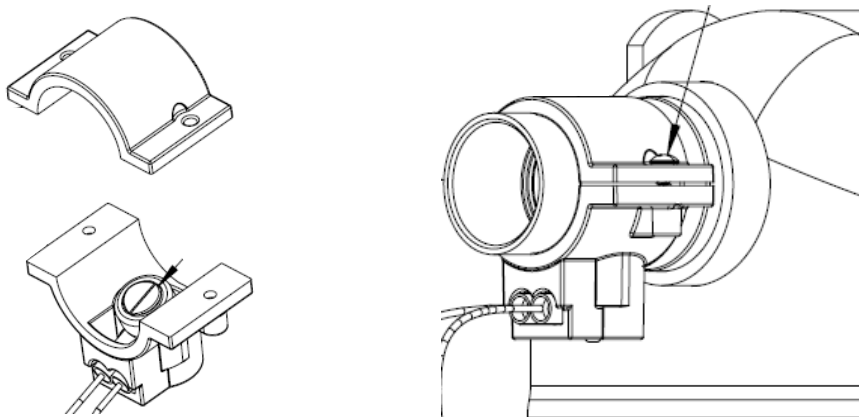
### Variable Speed Range

For single compressor applications, the allowable speed range for all GSD DV2 compressors is 35-75Hz. Operation above the nominal Hertz requires certain considerations to ensure the compressor is within its operating limits. For further information, contact [techsupport@bitzerus.com](mailto:techsupport@bitzerus.com).

For tandem and trio operation, consult CRC-0053 for allowable speed ranges.

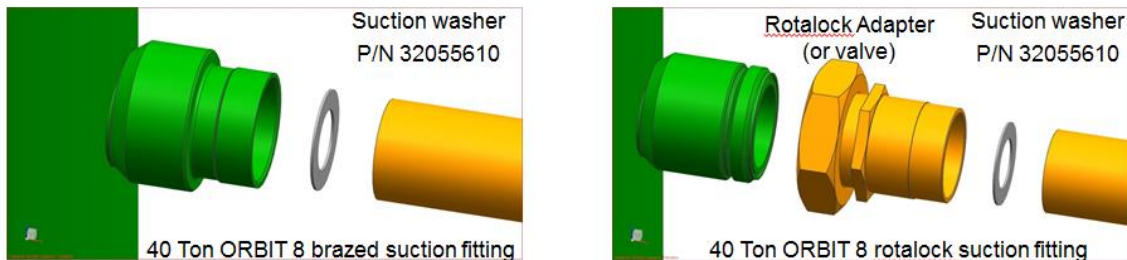
### Discharge Temperature Sensor (GSD8 Only)

The DV2 version of the GSD8 compressor no longer has a port on the discharge connection for an insertion type temperature sensor. As a result, a new sensor kit (p/n 347054-01) has been developed to accommodate this design change. This sensor is a strap-on type, see figures below.



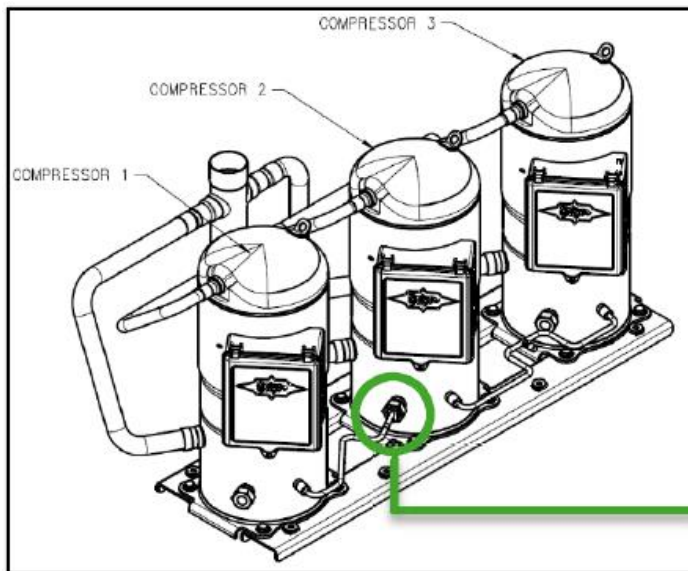
## Suction Washer (GSD8 Only)

A suction washer (p/n 320556-10) is needed when field replacing an existing GSD80485 DV1 compressor with a GSD80485 DV2 compressor ONLY in a tandem or trio application. See the figure below for washer placement. The suction washer is installed in the DV2 compressor only.



## Trio Oil Adapter Fitting (GSD6 Only)

With the release of the GSD6 DV2, the second oil service port fitting was eliminated which was only needed for Trio applications. A new adapter (p/n 360490-25) is available that installs into the sightglass to accommodate these Trio applications.



## Locked Rotor Amperage (GSD6 Only)

For some of the GSD6 DV2 models, the Locked Rotor Amperage (LRA) has increased. There are no changes to the Maximum Operating Amperage (MOA) or the Rated Load Amperage (RLA). Refer to document CRC-0061 for the updated values.