

May 31, 2017

TO: General Distribution

Re: Stress Savers in non-standard dimension

Stress Saver gaskets are dimensioned for ASME B16.5 150# up to 24". (Style 3504/3505 GYLON STRESS SAVERS are available to 8"). Since all versions of STRESS SAVERS are molded, we have very little flexibility in providing non-standard gaskets, since we are limited by the ID and OD of the mold cavity. Gaskets are molded without the bolt holes and then the OD and bolt holes (BH's) are cut with dies.

Please see various topics below.

**Non-standard OD:** the molded gasket is slightly larger than the finished gasket so there is a little room to sell a gasket with a larger OD. See also "300# gaskets"

**Non-standard drilling:** This is often possible if the bolt circle (BC) is standard, but the BH's are smaller than standard. It is SOMETIMES possible to have a non-standard BC but it must be compared to the rib locations and to the OD of the molded gasket.

**Raised face flanges:** STRESS SAVER gaskets (other than the 3504 STRESS SAVERS) are NOT recommended for metallic raised face flanges, as the available assembly stress far exceeds the crush resistances of the elastomeric STRESS SAVERS. In one or both of the flanges in the assembly is RAISED FACE, please contact Applications Engineering. Note: there are some non-metallic flanges that are basically raised face. Many of these are acceptable with Stress Savers since the allowable torques are often very low, such that the stresses might be a little high for rubber but still too low for most other gasket types. Because other types of gaskets will not seal well at these low torques, Stress Savers become the best option. The XP and 3504 versions are best in these flanges, since these can handle the moderately higher stresses in these non-metallic RF designs.

**300# gaskets:** This can be a problem for 3 reasons:

- The OD of a 300# flange is larger than the 150# and each size must be compared to the molded gasket OD. In some cases our molded OD will not be large enough to cover the 300# flange to the OD.
- The bolt holes may be very close to the gasket OD.
- The pressure rating of metal Class 300# flanges, at ambient temperature, is approx. 750 psig. The Stress Saver recommended pressure limit for the RUBBER versions, style 370, 6800, and XP, is 250 psig. Usually we are told that the customer insists that the actual pressure is under the 250 psig limit, but once the gasket is installed in a 300# system, we have to ask how the owners of the system will ensure that NO ONE will ever forget that there is a low pressure gasket in the system and run the pressure higher than 250 psig.

We trust this information is helpful. Please feel free to contact Applications Engineering should you require anything further.

Sincerely,

*Dave Burgess*

Dave Burgess

Sr Applications Engineer

Industrial Gasketing

cc: C Hicks M Tones

file: g/ingasket/applications/customer info