

GF Piping Systems

2882 Dow Avenue, Tustin, CA 92780-7258 • Tel. (714) 731-8800 / (800) 854-4090, Fax (714) 731-6201
e-mail: us.ps@georgfischer.com • www.gfpiping.com

To: GF Piping Systems Distributors
From: Dave Vollaire
Product Manager, Valves and Actuation

Date: July 21, 2011

Issue: 27/11

Product Advisory: Diaphragm Valves

5-Series Diaphragm Valves with black PPS nut and EPDM backing diaphragm not for use in high concentration acids and oxidizers

As a precautionary safety measure, we are informing you that there is a risk that the black PPS housing nut of the 5-series diaphragm valve will fail when used with an EPDM backing membrane in applications involving high concentration oxidizing acids. Examples of oxidizing acids are:

- Nitric Acid, HNO_3
- Sulfuric Acid, $\text{H}_2\text{SO}_4 > 70\%$
- Chromic Acid, CrO_3 in Water
- Mixtures of Sulfuric Acid and Chromic Acid

The use of EPDM materials for these applications is not recommended by Georg Fischer (please refer to our chemical resistance chart for further details).

Products listed below with an EPDM backing membrane and black PPS nut shall not be used in these applications:

- PVDF Standard manual valves (code 175.51X.XXX)
- DIASTAR Sixteen with PVC body (code 161.63X.XXX)
- DIASTAR Sixteen with CPVC body (code 163.63X.XXX)
- DIASTAR Sixteen with PVDF body (code 175.63X.XXX)

Actions required by all distributors:

- Please review the applications with your customers who have purchased the above mentioned product codes.
- If you are using high concentration oxidizing media in combination with the above mentioned products, please take appropriate safety measures - as if you were handling corrosive media - when operating and handling the mentioned valves.
- If you have the mentioned products installed or about to be installed with oxidizing media as listed above, please contact your ASM immediately for further recommendations.
- If you are unsure about your application or need further information please contact your ASM or me.

PPS is a standard material of construction, and is listed in GF literature, but we feel it necessary to put out this advisory as a reminder to be aware of this when specifying this product for applications.

