

## Diaphragm Seals

DS/PI-73

### TYPE 740 LOW PRESSURE DIAPHRAGM SEAL, Q&A

**Q. What is the displacement of the Type 740 seal?**

A. .43 cubic inches or 7.0 cubic centimeters.

**Q. Can the 740 seal be used on vacuum service?**

A. Yes. Maximum vacuum indication may not exceed 25" Hg. If higher vacuum indication is required, consult Stratford Customer Service.

**Q. Are other than ¼" and ½" NPT process connections available? At additional cost?**

A. Yes. We can supply ½" through 1½" NPT process connections at no extra charge. Larger size connections are on application.

**Q. Will flanged connections and pricing be made available?**

A. Yes, they are on application. Advise size, material, flange class, and type of face.

**Q. What is the additional accuracy error of the Type 740 Diaphragm Seal when attached to a pressure instrument?**

A. The additional error at room temperature (72°F) is ½%.

**Q. Is the standard Gylon® 3510 PTFE gasket material suitable for use on all chemicals at all temperatures?**

- A.
1. Gylon® is suitable for most chemicals listed in the Ashcroft Corrosion Guide ASH/PI- 14B and any forthcoming revisions of the Guide. Exceptions are listed below:
    - a. For sulfuric acid, in concentrations over 75%, specify variation code XGA (Ashcroft component part number 124A82-01) which calls for Gylon® 3545 microcellular PTFE
    - b. For sodium hydroxide (caustic or caustic soda), the standard Gylon® 3510 gasket is preferred but limited to a 45% concentration and maximum 250°F.

- c. For low pressure oxygen, specify an oxygen cleaned instrument without a Diaphragm Seal.
  - d. For low pressure dry fluorine gas, specify a Monel instrument without a Diaphragm Seal.
  - e. For applications above 500°F. (and up to 600°F.) specify variation code XGC for Garlock Graph-Lock® 3123 homogeneous graphite. (Ashcroft component part number 124A282-02). This material is not suitable for sulfuric acid and other strong oxidizers which are noted in Ashcroft Corrosion Guide ASH/PI-14B with a Δ symbol and will be noted in forthcoming revisions of the Guide with a (bomb symbol).
2. No additional charge will be made for either of the above alternate gasket materials.

If in doubt on suitability/compatibility of the above gasketing materials, contact Customer Service and advise process media, concentration, pressure and temperature.