



# One-Up<sup>®</sup>

## PUMP DIAPHRAGM



## For Air-Operated Diaphragm Pumps


### GUARANTEED TO LAST LONGER

GORE<sup>®</sup> ONE-UP<sup>®</sup> pump diaphragms, with proprietary PTFE on the wetted side, are a significant advancement over conventional PTFE diaphragms. Considerably stronger, with greater flex life, they provide a dramatic improvement in service life. Satisfaction guaranteed, or purchase price refunded.

### DURABLE VERSATILITY

Chemical resistance is the property that makes GORE<sup>®</sup> ONE-UP<sup>®</sup> pump diaphragms so versatile. Suitable for use with most chemicals and in elevated temperatures and pressures, these diaphragms are ideally suited for those general service pumps that are likely to be put to one use today and another use tomorrow.

You can expect long, effective service life and reduced maintenance costs with these durable one-piece diaphragms. Strength and chemical resistance make ONE-UP<sup>®</sup> pump diaphragms perfect for most of your pumping requirements.

 Complies with all the relevant provisions of the potentially explosive atmosphere directive 94/9/EC and national laws adopting this directive. GORE<sup>®</sup> ONE-UP<sup>®</sup> diaphragms may be used in potentially explosive atmospheres when installed in ATEX compliant pumps.



### TECHNICAL DATA

#### MATERIAL/CONSTRUCTION

One-piece composite design with a proprietary 100% PTFE on wetted side.

#### TEMPERATURE RANGE

Neoprene backing: 14°F to 200°F (-10°C to 93°C)

EPDM backing: 14°F to 280°F (-10°C to 137°C)

Viton<sup>®</sup> backing: 32°F to 350°F (0°C to 176°C)

#### CHEMICAL RESISTANCE

Chemical resistance to all media in pH 0-14 range, except molten alkali metals and elemental fluorine.

#### FLEX LIFE

>70MM cycles (ASTM-D-2176, 0.020 in. thick, 0.600 in. wide)

#### IMPACT STRENGTH

30.4 ft. lbs./in. (ASTM-D-256, 0.220 in. thick)

### KEY FEATURES

- Made from a proprietary 100% PTFE
- Bonded to a reinforced rubber backing
- Patented rib construction
- Chemically inert & temperature resistant
- Greater flex life
- Available for most brands of pumps & sizes

### KEY BENEFITS

- Lasts Longer: Replace diaphragms less often
- Versatility: Diaphragms work with most chemicals
- Cost: Lowers maintenance and operating costs

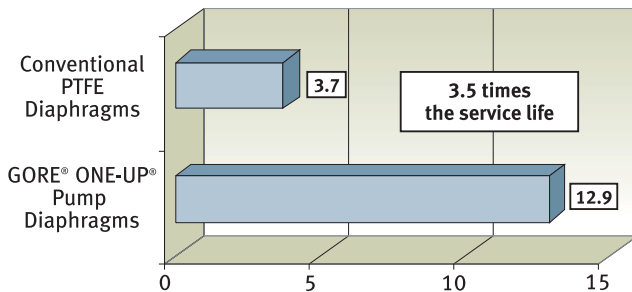


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### FIELD TESTING

GORE<sup>®</sup> ONE-UP<sup>®</sup> pump diaphragms have been extensively field tested in a wide variety of industries including chemical processing, paint, solvent and detergent manufacturing, and wastewater treatment. Documented case histories show that the average service life is 3.5 times longer than conventional PTFE diaphragms.



### LONG SERVICE LIFE

The superiority of the PTFE technology developed by Gore ensures that pump diaphragms will provide extended service life.

Property	ASTM Method	Sample Dimensions (Thickness)	Conventional PTFE (Literature)	Gore PTFE (Test Data)
Flex Life (MM cycles)	ASTM-D-2176	0.020 in 0.600 in	4.1	70+*
Impact Strength (ft lbs/in)	ASTM-D-256	0.220 in	2 – 3.5	30.4
Tensile Strength (psi)	ASTM-D-638	0.220 in	4000-5200	14920
Mullins Burst (psi)	ASTM-D-3786	0.020 in	180**	540
Tensile Creep (1000 hr, 1000 psi)	ASTM-D-2990	0.100 in	20%-30%**	9%-10%

Sample dimensions are given to compare conventional PTFE to Gore's PTFE for testing purposes and do not represent actual diaphragm dimensions.

\*Test was stopped over time.

\*\*Actual test results for conventional PTFE film.

Supplied By:



All technical information and advice given here is based on our previous experiences and/or test results. We give this information to the best of our knowledge, but assume no legal responsibility. Customers are asked to check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. Specifications are subject to change without notice. Gore's terms and conditions of sale apply to the purchase and sale of the product.

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### EASY INSTALLATION

Since the GORE<sup>®</sup> ONE-UP<sup>®</sup> pump diaphragm is a one-piece design, it is simple to install. Whether it incorporates bolt holes or a perimeter sealing bead, it fits easily into the pump housing without the difficulties associated with installing two-piece diaphragm sets.

### SATISFACTION GUARANTEED

We guarantee your satisfaction. If, on your initial order, you are not completely satisfied with the performance-in-use of the diaphragms, return them to us for a full refund of the purchase price.

### AVAILABILITY

ONE-UP<sup>®</sup> pump diaphragms are available for the following makes of air operated diaphragm pumps: ALMATEC, ARO, DEPA, BLAGDON, FLOTRONICS, GRACO, UNITEC, VERDER, VERSAMATIC, WARREN RUPP, WILDEN, YAMADA.

### CONTACT US FOR MORE INFORMATION

Detailed selection criteria, technical assistance, and installation guidelines are available from your local authorized Gore distributor or the application engineers at W. L. Gore & Associates, Inc. **800-654-4229**. Visit us at [www.gore.com/sealants](http://www.gore.com/sealants).

For a complete listing of local sales offices please visit [gore.com/sealants](http://gore.com/sealants).

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