

# PTFE GASKET KITS



Wilden Pump and Engineering Company's PTFE Gasket sealing material is used on a variety of our air-operated double-diaphragm pumps to ensure the highest seal integrity. The inherent properties of 100% PTFE fluorocarbon allow the gaskets to easily conform to irregular surfaces while providing additional deflection and positive sealing between wetted pump components. PTFE is the most chemically inert material known to man, therefore these gaskets provide superior chemical resistance and longer life.

PTFE gasket material is installed during the assembly of most Wilden pumps fitted with PTFE diaphragms (see back of brochure for details). This sealing material comes in two forms: tape to

be applied on water chamber diaphragm beads and gaskets to seal ball seat areas and T-sections. PTFE does not have any "memory" or elasticity and will not return to its original shape once compressed. Therefore the gaskets and tape are not reusable and must be replaced each time a pump utilizing these gaskets is disassembled.

This kit contains sufficient material to seal one pump. Prior to installation, inspect all surfaces to be sealed and ensure that they are clean and free of all foreign matter and obstructions. Any nicks or scars on the sealing surface should be deburred and smoothed to produce an improved sealing surface. Proper alignment of wetted parts is necessary to ensure seal integrity in all Wilden pumps.

# WILDEN®

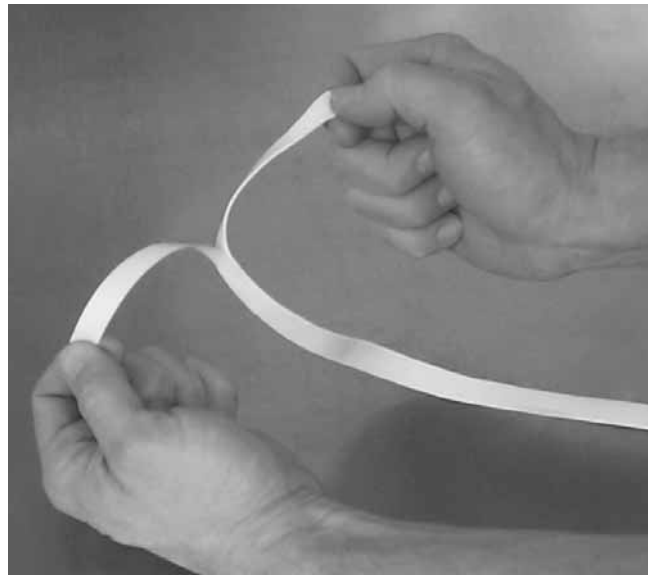
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## **INSTALLATION INSTRUCTIONS- Gasket Kits**

During re-assembly follow the procedures listed in your pump's Engineering, Operation and Maintenance manual. Carefully prepare sealing surfaces by removing all debris and foreign matter from diaphragm bead and all mating surfaces. If necessary, smooth or deburr all sealing surfaces. Mating surfaces must be properly aligned in order to ensure positive sealing characteristics.

Ensure that you have the correct sealing kit by reviewing the chart on page 4.

Always wear safety glasses when performing maintenance on any Wilden product.



1. Gently remove the adhesive covering from the back of the PTFE tape. Ensure that the adhesive strip remains attached to the PTFE tape and is not removed with the adhesive covering.



2. Starting at any point, place the PTFE tape directly on top of the diaphragm bead. Press lightly on the tape to ensure that the adhesive holds it in place during assembly. Do not stretch the tape during placement on the diaphragm bead.

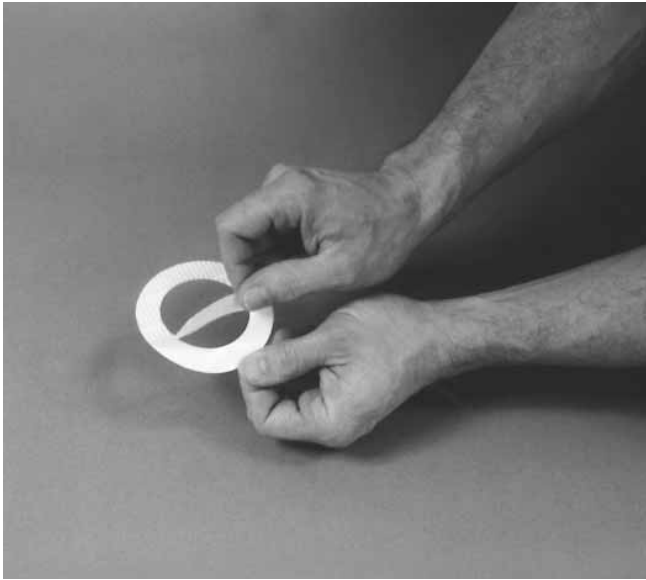


3. The ends of the tape should overlap approximately 13mm (1/2") (*Figure 3*). Proceed to install the PTFE tape on the remaining diaphragm.

## INSTALLATION INSTRUCTIONS - Gasket Kits

The following directions are for pumps which require PTFE gaskets. When installing PTFE gaskets, the gasket must completely cover the valve seat o-ring for maximum seal integrity. Due to the variety of pump model designs: valve seat, o-ring and gasket assemblies are located in various locations along the wetted path. The following description gives you gasket locations for all pumps: 13mm (1/2") PVDF & PFA UPI and

25mm (1") PVDF and Polypropylene Cross-Bolted pumps require PTFE gaskets on the bottom of the liquid chambers, discharge manifolds, and T-sections. 38mm (1-1/2") PVDF and PFA pumps require PTFE gaskets on the top and bottom of the liquid chambers and T-sections. 51mm (2") PVDF pumps require that PTFE gaskets be installed on the intake manifold and the top of the liquid chambers.



4. Carefully remove the protective covering from the back of the PTFE gasket attached to the tape.



5. Following Engineering, Operation and Maintenance manual assembly instructions, install the valve ball, valve seat and o-ring.



6. Center the gasket so that it evenly covers the o-ring and seat areas.



7. Gently apply pressure to gasket to ensure the adhesive maintains a positive seal to stay in place during pump assembly.

## PUMP GASKET REQUIREMENTS

Pump Model and Wetted Construction	Bill of Materials	Gasket Location	Part #
13mm (1/2") - Poly, UPII & III, CFA SD1/2***- Poly, PVDF, CFA, and PFA	2 ea. 16.125 in. X 1/4" PTFE Tape	Diaphragm Bead	01-9500-99
13mm (1/2") - PVDF and PFA UPI	8 ea. PTFE Gasket (1-3/8" O.D. X 5/16" Wide) 2 ea. 16.125 in. X 1/4" PTFE Tape	Ball Seat and T-Section Diaphragm Bead	01-9501-99
25mm (1") - Poly, and PVDF	2 ea. 20 in. X 1/4" PTFE Tape	Diaphragm Bead	02-9500-99
25mm (1") - Stainless Steel and Hastelloy®	2 ea. 21 in. X 1/2" PTFE Tape	Diaphragm Bead	02-9502-99
38mm (1-1/2") - Cast Iron SD1** - PVDF, PFA, and Cast Iron	2 ea. 27.25 in. X 1/2" PTFE Tape	Diaphragm Bead	04-9502-99
38mm (1-1/2") - PVDF and PFA	4 ea. PTFE Gasket (3-1/2" O.D. X 3/8") 4 ea. PTFE Gasket (3-1/2" O.D. X 5/8") 2 ea. 27.25 in. X 1/4" PTFE Tape	Ball Seat Area T-Section Diaphragm Bead	04-9501-99
51mm (2") - Cast Iron SD2** - Stainless Steel and Cast Iron	2 ea. 35.75 in. X 1/2" in. PTFE Tape	Diaphragm Bead	08-9502-99
51mm (2") Poly SD2** - Poly & PVDF	2 ea. 35.75 in. X 1/2" PTFE Tape	Diaphragm Bead	08-9502-99
51mm (2") - PVDF	4 ea. PTFE Gasket (4-5/8" O.D. X 3/8") 4 ea. PTFE Gasket (4-5/8" O.D. X 5/8") 2 ea. 35.75 in. X 1/2" PTFE Tape	Ball Seat Area T-Section Diaphragm Bead	08-9503-99
76mm (3") - Aluminum and Cast Iron	2 ea. 46 in. X 1/2" PTFE Tape	Diaphragm Bead	15-9502-99

\*\*Equalizer surge dampeners only require 1 piece of PTFE tape during installation.



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