TOWNIPRENE® PUMP PARTS

Urethane Lined Wet-End Parts To Fit Legacy & Contemporary Pumps

TOWNLEY

Engineering & Manufacturing Co., Inc.

TOWNIPRENE®

Urethane is a proprietary formulation designed to give long service life to the pump parts. Our R&D lab performs relevant material and chemistry analysis to ensure the finished parts. While our normal urethane is TDI terminated we also provide higher temperature urethanes with MDI termination.

With our continuous microprocessor dispensing modules we can fill large molds without interruption and with the least amount of air entrainment, ensuring high quality finished parts with uniform material integrity, time after time.

With our precision CNC produced molds we enjoy minimum trim time and perfect fit when installed. Most Townipreneⓡ molded parts have ductile iron inserts or skeletons to provide attach points, maintain shape and functionality in use.

Townley has been upgrading OEM rubber, urethane and metal pump parts for almost thirty years. Usually a customer has unusual wear patterns or short life due to tearing. Usually the OEM just sells more of the same parts. We have a unique array of urethane technologies that can be applied to these problems as well as a quick turn-around North American CNC machine shop capability to make high quality molds and a high volume continuous-pour urethane dispenser capable of filling large molds.

Typically, Townley will examine the wet-end parts in question looking for failure modes, couple this work with an application & system review and lab analysis we can make recommendations to the end-user about upgrades in elastomer or design modifications to ensure the customer will enjoy a longer service life for each wet-end component.

If we don't have the questionable part in our pattern inventory, then we start by digitizing an original OEM part, to ensure exact fit and finish. Using our portable ROMER Coordinate measuring machine (PCMM) or a laser scanning device, we can create a 3D model of the part in GIBBS-CAM which facilitates machining the high quality molds in our CNC center.

Partial list of wet-ends available for the contemporary and legacy OEM styles

Warman AH style
(Throat bush/ cover plate liner / Impeller / frame plate liner for many sizes)
- o 1.5 X 1
- o 2 X 1.5
- o 3 X 2 X 9
- o 4 x 3
- o 6 x 4
- o 8 X 6
- o 10 X 8 X 22.5 (29)
- o 12 X 10 X 32
- o 14 X 12
- o 16 X 14
- o 18 X 16
- o 20 X 18

GIW LSA Style
(Suction door / suction liner, shell and impeller for many sizes)
- o 8 X 6
- o 10 X 8
- o 12 X 10
- o 14 X 12
- o 16 X 16
- o 18 X 16
- o 22 X 20

Thomas Style
(Suction door / suction liner, shell gland liner & door and impeller for many sizes)
- o 8 X 6
- o 10 X 8
- o 12 X 12
- o 18 X 16
- o 20 X 16
- o 20 X 20

Galigher Style
(Upper and lower casings / suction & gland liner and impellers for many sizes)
- o 2 X 1.5
- o 2.5 X 2
- o 6 X 4
- o 8 X 6

ASH SRH/DG9 Style
(Suction liner, volute liner / impeller gland liner for many sizes)
- o 2 X 2
- o 2 X 2.5
- o 3 X 3
- o 4 X 3
- o 5 X 4
- o 6 X 6
- o 6 X 8
- o 8 X 8
- o 10 X 8
- o 10 X 10
- o 12 X 10
- o 14 X 12
- o 16 X 14
- o 16 X 16
- o 18 X 16
- o 20 X 20
- o 21 X 20

Denver SRL/DBCH Style
(Suction door / suction liner / gland liner and impeller for many sizes)
- o 1.5 X 1.25
- o 2 X 2
- o 2 X 2.5
- o 3 X 3
- o 4 X 3
- o 4 X 5
- o 5 X 5
- o 6 X 6
- o 10 X 8
- o 12 X 10
- o 14 X 12
- o 16 X 14
- o 20 X 18

Inquire about additional OEM styles
- Allis Chalmers
- Ellicott
- Galigher
- Pettibone
- Sala

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Helpful information when inquiring about pump parts

In order to ensure wet-end parts fit exactly into your existing pump installation and to understand the application effects on the pump wear and be able to make recommendation about upgrades available, both in material and design, it would be helpful to gather the following information if available.

OEM information:

- Detailed OEM part numbers
- Original OEM drawing
- General arrangement drawing
- Pump curve
- Elastomer type or alloy
- Impeller thread size
- Rotation
- RPM

Process information:

- Process service (tailings, matrix, mill)
- Description of slurry
- Specific gravity
- pH
- particle size (D50)
- Max size to pass
- Solids %
- Temperature
- Operating pressure

Pump information:

- Hydraulic requirements
- NPSH available
- Total Head
- Flow
- Expectations:
- Current and expected lifetimes

Characteristics of Towniprene® 3380

Color	Red
Hardness shore A	85
Tensile strength Mpa	32
Elongation %	550
Compression set	30
Max Temp °F	165
Resilience	Excellent, bayshore % 50
UV degradation	Excellent, slight color fade
Tear Resistance	Excellent, split pli of 50

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