



Hi-Tech Sealant System Industrial Pumps & Valves



- **Injectable Packing**
- **Lowers Operating Costs**
- **Reduces Energy Consumption**
- **Extends Equipment Life**
- **Reduces or Eliminates Downtime**
- **Simplifies Inventory; One Size Fits All**

The Most Widely Accepted Bulk Pump Packing In The World

UNIVERSAL PACKING 777 is being used successfully in a variety of pump and valve applications in the pulp & paper industry, potable water supply, wastewater treatment plants, power generation stations, breweries, food processing, mining, hospital heating and boiler feed pumps, high rise buildings, air conditioning evaporator systems, steam condensate pumps, refineries, and the marine industry.

Universal Packing 777 is a product of
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Made in the U.S.A.



Unique Properties

- Combines the latest chemistry and fiber technology
- A malleable, putty consistency makes installation easy
- Conforming to any shape it will seal even worn shafts
- Low coefficient of friction results in lower operating temperatures
- Self-lubricating; needs no flush or cooling water
- Long lasting, will not dry out or harden
- Packaged in durable, compact, easy to use and store containers

Major Benefits

- Prevents leakage
- Lowers operating costs
- Reduces maintenance time and costs
- Saves energy
- Reduces shaft and sleeve wear
- Extends equipment life
- Reduces or eliminates downtime



Universal Packing is a carefully controlled blend of high-tech greases and lubricants combined with modern fibers resulting in a superior product. Its malleable consistency makes it easy to use. It can be injected with a high pressure gun or installed by hand. Unlike braided packing, no cutting is necessary. It will conform to any size stuffing box and seal it.

Universal Packing's unique properties assure superior performance and deliver major benefits resulting in improved plant and equipment maintenance at reduced costs. Its ability to fill any crevice makes it an effective seal on worn or grooved shaft sleeves. Highly lubricious, Universal Packing requires no cooling or flush water. The operating costs of wasted water and product is eliminated. Universal Packing will run leak-free. A cleaner environment, meeting EPA concerns, can be achieved. Its low coefficient of friction means equipment runs cooler, consumes less energy and last longer.

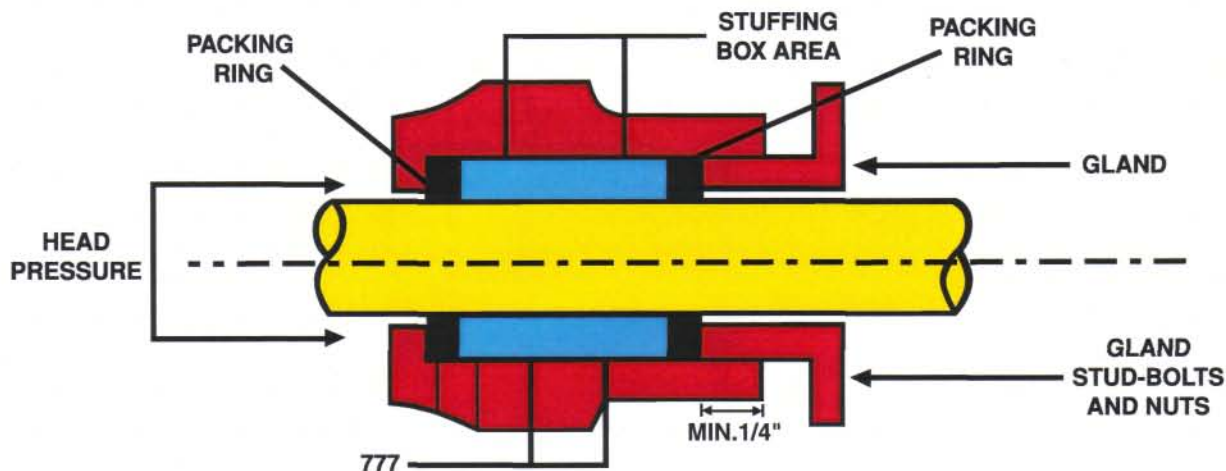
Highly versatile, Universal Packing is formulated in a variety of styles to meet the conditions found in almost any industry. There is a style suited to your needs; from high acidity to high alkalinity (0 to 14pH), temperatures to 1200°F (649°C), pump pressures to 250 psi (17.2 bar) and, 3000 psi (206.8 bar) in reciprocating equipment or valves. A non-staining, non-contaminating style exists which meets FDA standards for food contact and potable water applications.

Conveniently package for easy handling and storage, Universal Packing is available in 2 lb., 5 lb., 10 lb. and 20 lb. bulk containers (or 1 kg, 5 kg and 10 kg). Cartridge stick (1/2 lb. each) packaging is available for use with the injection gun. However, the gun can be used with the bulk versions, also.

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Self-Lubricating Waterless Leak Free Injectable

UNIVERSAL PACKING 777 is quick and easy to install



Initially, Universal Packing should be installed by hand:

1. Shut off seal water and lubrication inlet
 2. Remove old packing and lantern ring
 3. Inspect and clean shaft and gland
 4. Install good quality, braided packing ring in the bottom of the stuffing box; cut on a 45° angle from top to bottom
 5. Pack tightly with Universal Packing 777
 6. Add 777 until just enough space is left to install a braided ring in the top of the stuffing box
 8. Install top braided ring (the braided rings and 777 should fill the stuffing box to within 1/4" of the top)
 9. Hand tighten gland bolts, very snugly, turn on pump and let it run for 15 minutes
 10. Gradually tighten gland bolts, one flat at a time, until all leakage stops.
- Do not over-tighten**

**Leave the cooling water or lubrication inlet shut off. Universal Packing 777 is self-lubricating
NEVER HAMMER OR FLATTEN THE BRAIDED RINGS TO MAKE THEM FIT EASIER**

In Valves, simply remove old packing, install bottom braided ring, add 777, install top ring, snugly tighten follower nut.

Occasionally, 777 packing will require topping-up.

This can be done by removing the gland follower and top braided ring and adding more 777.

Even more conveniently, use the **Injection Gun** by connecting it to a button head or easy flow fitting installed in the pump flush water port, loosen the gland follower nuts and inject 777 until the stuffing box is filled. **Do not overfill**. The **Button Head** fitting contains a ball check which will allow topping-up while the equipment is running.







With the exception of Universal Packing 777-1 and 777-3, all of the styles can be used in the Injection Gun. For added convenience, style 777-2, 777-000 (use with easy flow fitting) and styles 777-4, 777-5, 777-2000 are packaged in cartridge stick form designed to fit the gun.



Although, Universal Packing is long-lasting, it is recommended that it be replaced at regularly scheduled, equipment, servicing intervals

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Styles and Specifications

Universal Packing	Applications	pH Range	Max. Temp	Max. Pressure	Speed
777-1 (black)  18 mic. lead and graphite, molydisulphide, hydro-treated distillate, tri-sette® flax	wastewater slurries raw sewerage	4 to 10	350°F 176°C	Rotary: 450 psi 31 bar Reciprocating: 3000 psi 206.8 bar Valves: 3000psi 206.8 bar	Shaft Speed: fpm 4000 mps 20.3 Rod Speed: fpm 150 mps 0.76
777-2 (cream)  Natural polished flax and phosphate grease additive	water sewerage brine sea water mild acids mild caustics	2 to 12	400°F 204°C	Rotary: 150 psi 10.3 bar Reciprocating: 1200 psi 82.6 bar Valves: 1200 psi 82.6 bar	Shaft Speed: fpm 1500 mps 7.6 Rod Speed fpm 150 mps 0.76
777-2RWS (red)  Petroleum hydrocarbons, refined heavy naphthenic, P.T.F.E.	raw water salt water brackish water slurries sewerage	3 to 11	400°F 204°C	Rotary: 200 psi 13.8 bar Reciprocating: 1600 psi 110.6 bar Valves: 1600 psi 110.6	Shaft Speed: fpm 1500 mps 7.6 Rod speed: fpm 150 mps 0.76
777-3 (black)  GFO®, P.T.F.E., lead pellets	boiler feed acids caustics	2 to 12	500°F 260°C	Rotary: 500 psi 34.4 bar Reciprocating: 3000 psi 206.8 bar Valves: 3000 psi 206.8 bar	Shaft Speed: fpm 4000 mps 20.3 Rod Speed: fpm 150 mps 0.76
777-4 (black)  GFO®, P.T.F.E., chemically inert materials	sea water steam condensate acids caustics sewerage certain solvents pulp & paper mills	2 to 12	500°F 260°C	Rotary: 250 psi 17.2 bar Reciprocating: 3000 psi 206.8 bar Valves: 3000 psi 206.8 bar	Shaft Speed: fpm 3000 mps 15.21 Rod Speed: fpm 150 mps 0.76
777-5 (pure white)  Non-staining, non-contaminating, P.T.F.E., mineral oils. Meets F.D.A. specification #178,3570 for food contact	food processing potable water pharmaceuticals pulp mills paper mill bleach plant	2 to 12	500°F 260°C	Rotary: 150 psi 10.3 bar Reciprocating: 1200 psi 82.6 bar Valves: 1200 psi 82.6 bar	Shaft Speed: fpm 1500 mps 7.6 Rod Speed: fpm 150 mps 0.76
777-7 (Yellow/cream)  Aramid fiber	beaters stock pumps hydrofiners, digester pumps, sewage pumps and agitator	2 to 12	500° F 260° C	Rotary: 250 psi 17.2 bar Reciprocating: 3000 psi 206.8 bar Valves: 3000 psi 206.8 bar	Shaft Speed: fpm 1500 Rod Speed: fpm 150 mps 0.76
777-2000 (black)  Grafoil, heavy naphthenic greases	chemicals steam petroleum fuels hydrocarbons	0 to 14	1200°F 650°C	Rotary: 250psi 17.2 bar Reciprocating: 3000 psi 206.8 bar Valves: 3000 psi 206.8 bar	Shaft Speed: fpm 4000 mps 20.3 Rod Speed: fpm 150 mps 0.76