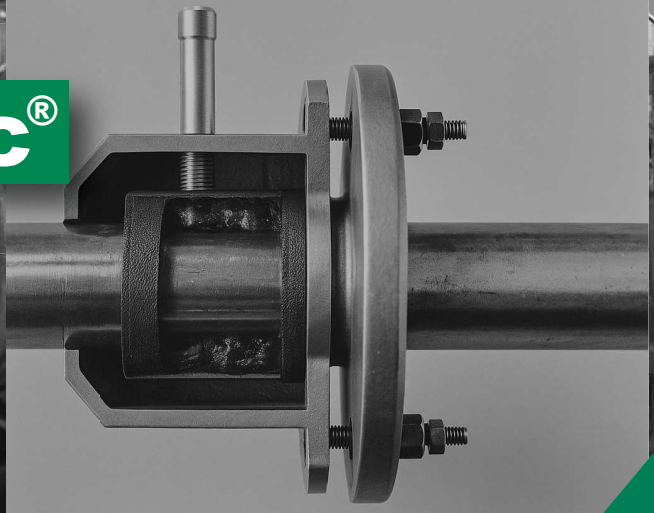
Tom-Pac®

innovative solutions
Since 1977
excellent service



TOM-PAC® SEALING COMPOUNDS

The alternative to braided packing and mechanical seals

No cooling or seal water
Seals slurry applications
Online maintenance
Easy to install

TOM-PAC® SEALING COMPOUNDS

Tom-Pac® Sealing Compounds are fibrous, flexible compounds that evenly surround the shaft and acts as a lubricated plug eliminating pressure points. They are self-lubricating and self-cooling: lantern rings and flush systems are never needed. They can reliably seal even difficult media such as slurry and abrasive applications.

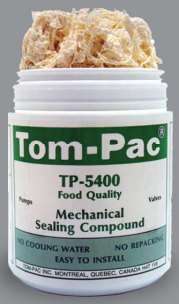
Tom-Pac Sealing Compounds ensure minimal friction for negligible sleeve wear and significant energy savings in pumps, agitators and other rotating or reciprocating equipment. Unlike mechanical seals that can be expensive, complex and delicate to handle, Sealing Compounds are simple and reliable. The only maintenance required is small additions to the existing compound, a simple procedure performed ON-LINE without having to shut down the equipment. Tom-Pac Sealing Compounds reduce downtime and minimize inventory.

BENEFITS

WATER SAVINGS:: No flush or seal water required
SLEEVES: Tom-Pac® is a non-compression compound, thus significantly reducing wear on sleeves
ELECTRICITY: Savings of approximately 8% due to less compression against the shaft
DOWNTIME:: Eliminated, Compound can be injected while machinery is on-line
INVENTORY: One size standardizes inventory

TP-4000
Suited for most applications.
and industries.

TP-5400
Recommend for food service
or where light color is required



TP-4800
For chemical service, high or
low pH and aggressive media

On-Line Injection System

Tom-Pac® Sealing Compounds are injectable ON-LINE for no downtime maintenance.

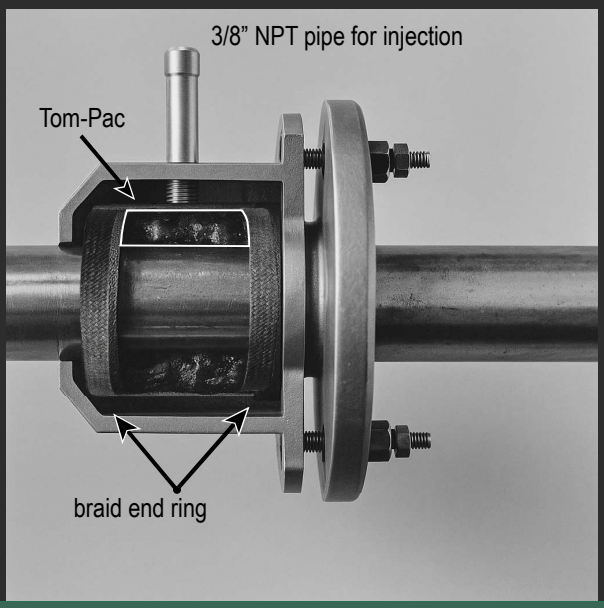
The TP-8100 or TP-8200 Linear Loaders™
can “reseal” the stuffing box
while the machinery is in operation by
injecting sealing compound with a quick
turn of the handle.

- Direct Injection
- “Reseal” pumps in 10 seconds
- Never adjust gland follower again
- Minimize downtime

INSTALLATION PROCEDURE

1. A good installation starts with equipment in good mechanical condition. Bearings, sleeve, stuffing box, follower, etc.
2. Ensure that the installation is within Tom-Pac's tolerances.
3. Measure shaft deflection with a dial indicator. Optimum Total Indicator Reading is .003" (0,075 mm)
4. Disconnect water cooling line leading to lantern ring, if any.
5. Remove all old packing and lantern ring from stuffing box. Note: Do not remove lantern ring if it is installed at the front of the stuffing box (wet end) forming part of the throat bushing.
6. Clean shaft of any debris and flush stuffing box.
7. Check that the flush water port, which will now be used as the injection port for Tom-Pac® compound, is approximately in the center of the stuffing box, with a 3/8" NPT opening straight to the shaft, with no restriction or reduction. If needed, re-drill with a 9/16" bit right to the shaft and tap 3/8" NPT.
8. Install a new ring of quality graphite braided packing at the wet end of the stuffing box (Contact Tom-Pac for braid type recommendations). Ensure that the braid is cut at a 45° angle and properly seated in the stuffing box.
9. Fill stuffing box with Sealing Compound. Compact by hand using gland follower to compress and remove air pockets.
10. Install a second new ring of braid at the dry end of the stuffing box. Install follower, ensuring that it enters the stuffing box at least 1/8". Tighten nuts moderately just to secure the follower. Do not overtighten. Install double nuts.
11. Load and install Linear Loader™ according to instructions. (use TP-8100 only for injection of TP-4800)
12. Start equipment and adjust to zero leakage, if necessary, by injecting additional compound via the Linear Loader™.
13. Install equipment maintenance tag.

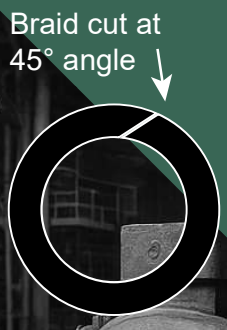
Online installation video: https://tom-pac.com/installation-videos/



RECOMMENDED MAXIMUM TOLERANCES

TP-4000	TP-5400	TP-4800
3600 rpm	3000 rpm	2400 rpm
pH 2-12	pH 1-13	pH 0-14
-40°F to +600°F	+5°F to +500°F	-40°F to +410°F
-40°C to +315°C	-10°C to +260°C	-40°C to +210°C

200 psi stuffing box pressure (15 bar)



IMPORTANT FACTS TO REMEMBER DURING INSTALLATION!

Make certain waterline is disconnected before installing Tom-Pac!
Always cut braid end rings at 45° angle!
Initial Installation is always done by hand, not by injection!
If a pipe is used to connect Injector to stuffing box port, Always pre-fill the pipe before connecting!
Never try to inject compound through pipe elbows of more than 45° angle!
Never use reducers if pipes are installed. Injection port must be 3/8" NPT all the way into the stuffing box.
Do not over tighten or over compress the gland follower! Overtightening will force out the compound lubricants.

VALVE SEALING INSTRUCTIONS

1.Remove ALL old packing. (remove lantern ring, if any, and plug connection.) Clean valve stem.
2.Place one new ring of quality braided valve packing at bottom of valve*.
3.Fill stuffing box with TP-4800 using a tamping tool to compact and remove any air pockets.
4.Tighten gland follower nuts firmly. VALVE IS NOW SEALED

Tom-Pac®

Providing cost saving, proven solutions, for many Industries

APPLICATIONS

Suitable to seal most rotating or reciprocating equipment that is designed for braided packing, providing the stuffing box has enough depth and the tolerances are in limit.

Pumps: Rotary, reciprocating, vacuum, centrifugal
Valves: Knife, globe
Mixers, agitators, soot blower

INDUSTRIES

Pulp & paper
Sewage treatment
Nuclear power
Petro chemical
Mining and ore processing
Coal-fired power generation
Asphalt manufacturing
Cement/ gypsum
Sugar refining
Food production
Hydro power
Plastics and polymers

Tom-Pac® : So Advanced, IT'S SIMPLE!

Tom-Pac® formulas are specifically designed to standardize and simplify maintenance. Our focus is on basic cost effective alternatives to meet the needs of today's maintenance teams through advanced technology. Tom-Pac® is sold worldwide and is stocked by local distributors for customer convenience.

UNLIMITED SHELF LIFE

Tom-Pac® Sealing Compounds will keep indefinitely. No deterioration in sealing, lubricating or cooling effectiveness even if the container is left open.

DISTRIBUTED BY

Consult your local distributor for additional product and technical information