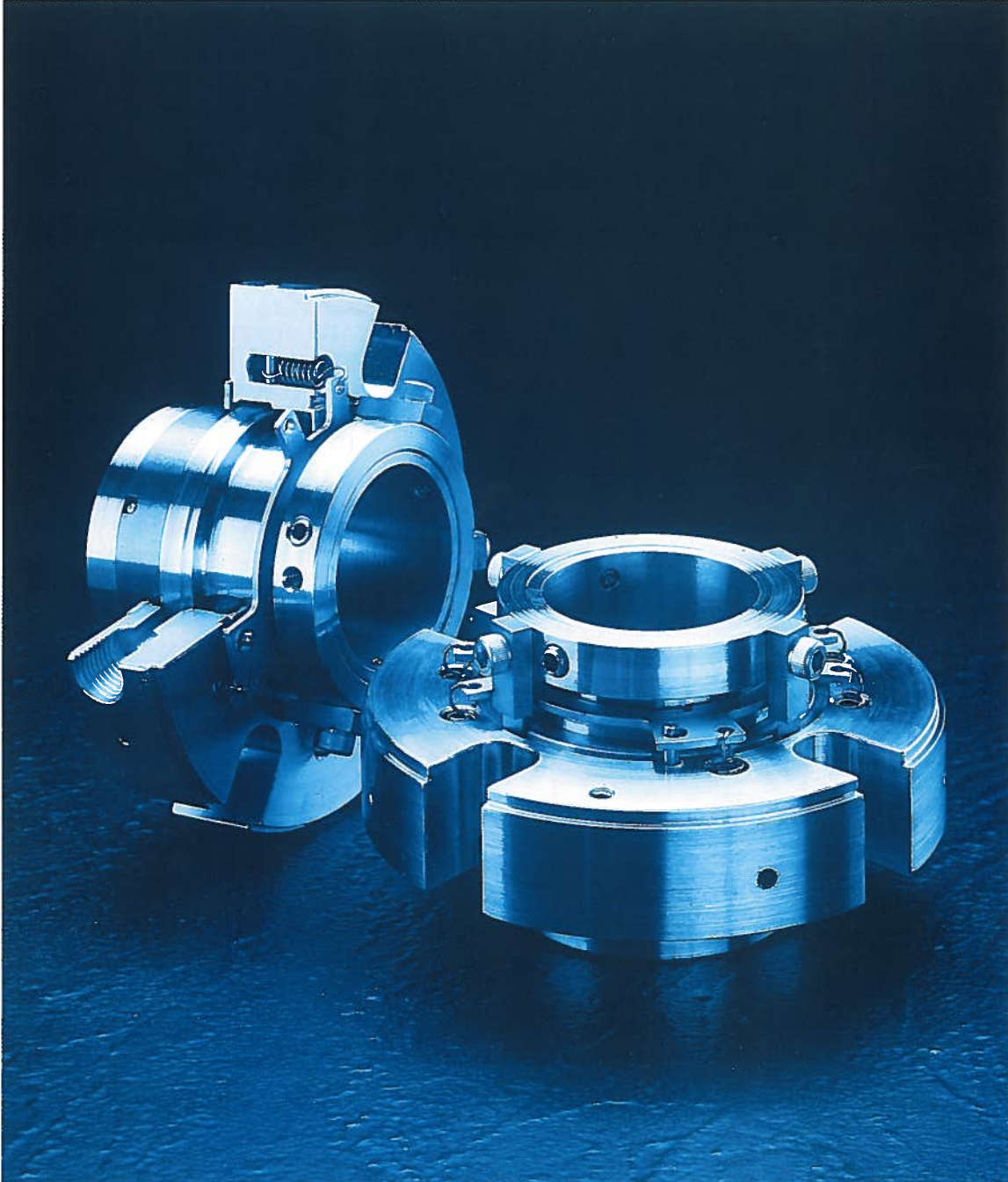


TH877

SINGLE ACTING
CARTRIDGE SEALS
FOR THE
PULP & PAPER INDUSTRY



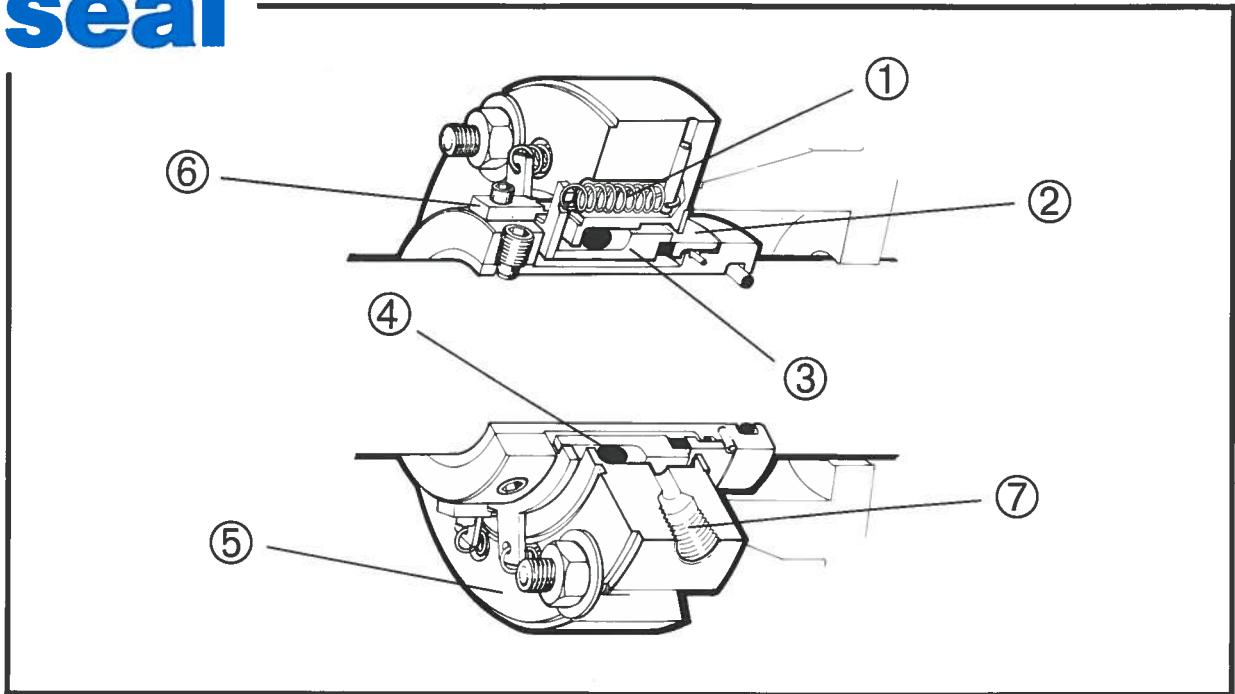
 **TYTON**

TH877 Non-clogging seal

Easy to install, balanced and self aligning cartridge unit, the TYTON TH877 is the most widely used type of mechanical seal for stock in Canada.

Tough and long lasting under the most abrasive and corrosive

conditions, the TH877 offers significant advantages over packing. Its design requires less flushing water, eliminates shaft wear and the need for frequent maintenance. The TH877 is also ideal for agitators, screw feeders, slurry pumps, etc.



- ① **SPRINGS – truly non-clogging**
Fewer and larger than found in most other designs, they are completely isolated. Being out of the media path, they are uniquely protected from product leakage.
- ② **SEAT RING – self-aligning rotary**
Directly aligned with the shaft, it eliminates face run out and extends seal life. Made of solid carbides or oxides (rather than merely plated).
- ③ **SEALING RING – internally balanced stationary**
Hydraulically loaded by product and balanced to handle up to 360 psi. Capable of accommodating angular misalignment of gland ring to 1-1/2°.
- ④ **O-RING – dynamic secondary seal**
Large cross section offers better flexibility to allow self aligning of stationary sealing ring.
- ⑤ **GLAND RING – universal flange**
Gland slotted to fit most pumps. Springs are uniquely retained in gland ring. Effective location of flush connection provides optimum cleaning and cooling.
- ⑥ **ASSEMBLY LOCKS – for accurate installation**
Locks provide pre-installation alignment of rotating and stationary parts. Locks to be removed after installation.
- ⑦ **FLUSHING CONNECTION – for extended seal life**
Allows injection of water into seal to prevent concentration of particles and abrasives. Temperature is lowered and immediate lubrication provided for start-up.

• FOR A SPLIT VERSION OF THIS SEAL, INQUIRE ABOUT OUR TH777



DESIGNED IN CANADA • MANUFACTURED IN CANADA • SERVICED WORLD-WIDE.

Seal Face Combinations

Hard Face Seal

for abrasive or corrosive conditions (stock, lime mud, etc.) is available with faces in tungsten carbide, silicon carbide or any of their combinations.

Carbon Face Seal

for corrosive media such as white water, condensate, etc., is available with faces in tungsten carbide, silicon carbide or ceramic.

Standard seals are all stainless steel (AISI 316) and a selection of elastomers is available for O-rings.

The TYTON Mechanical Seal Selection Guide T201 (available upon request) offers complete details on materials to match your applications.

TH877 an industry leader

The number one seal in Canada for stock applications, the TH877 is a proven performer with caustic soda, condensate, process water, white liquor, lime mud, white water, slurries and many other media.

OPERATING DATA

Hard face seal

Pressure	up to 360 psi	(2,500 kPa)
Temperature	-4 to 250°F	(-20° to +120°C)
Face speed	up to 30 ft/s	(10 m/s)

Carbon face seal

Pressure	up to 360 psi	(2,500 kPa)
Temperature	-40° to 350°F	(-40° to +180°C)
Face speed	up to 65 ft/s	(20 m/s)

Shaft movement allowance

Dia.	Radial	Axial	Angular
up to 1-3/4"	±.010" (.25mm)	+ .040" (1.0 mm) - .060" (1.5 mm)	±1°
> 1-7/8"	±.020" (.50 mm)	±.060" (1.5mm)	±1.5°

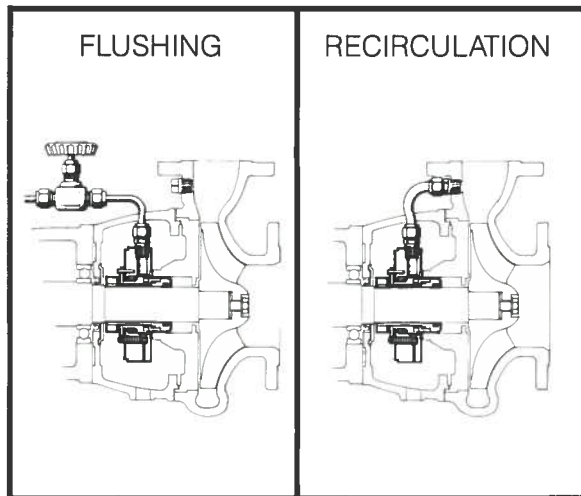
Off-the-shelf availability

TYTON maintains a full supply of standard sizes in stock from 1" to 5" to fit most pumps. Larger sizes are also available and we supply both custom size and metric seals.



Flushing/Recirculation

The TH877 requires less flushing water than packing. Other process liquids (e.g. white water) can be used rather than clean water from an outside source. In some applications an intermittent flush or a recirculation line from the pump discharge back into the seal may be used. Contact TYTON for recommendations.



Quality assurance

Our rigorous system of inspection and quality control is a major reason for our success in the industry. To ensure top performance, all our seals are carefully checked and pressure tested before leaving our plant.

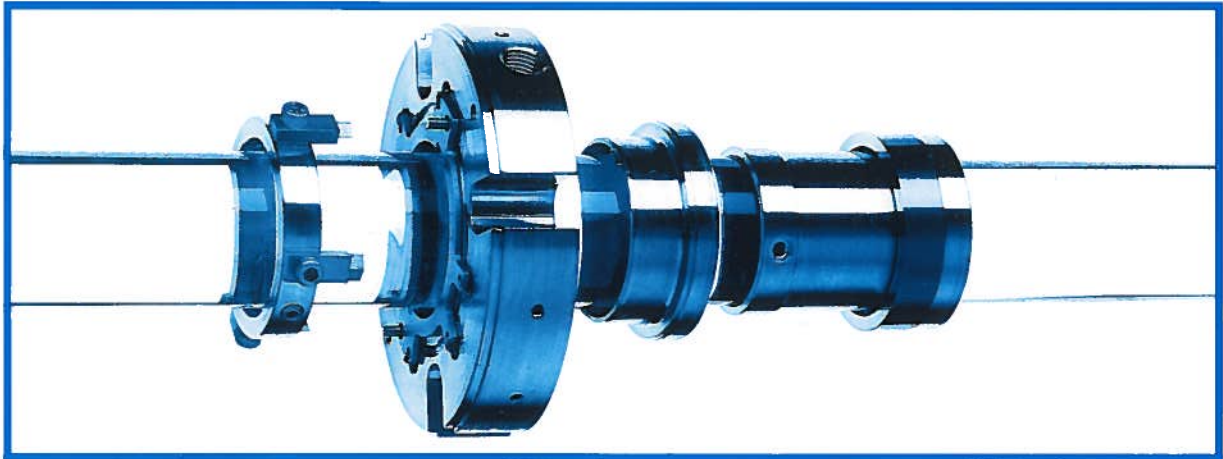
Easy does it

Fewer parts means fewer problems. The clean simplicity of our TH877 design makes it an efficient performer. This cartridge seal comprises only 4 sub-assemblies which allows for easy servicing.

More simplicity: the TH877 requires only 4

springs, neatly retained in the gland ring, where other conventional seals require 12 or more.

You are invited to call upon us for any information or for a demonstration of this "ease of assembly". We'll be happy to oblige.



TYTON

We are a truly Canadian enterprise, founded in 1961 and headquartered at Montreal, with representation throughout Canada. Our soundly established experience, particularly in the Pulp and Paper industry, has earned us a reputation for aggressively tackling problems of major scope and developing innovative solutions. This is a service which seal distributors are not capable of supplying. We further provide a service of presenting

non-biased product seminars either in house or at the mill. It has been a strong factor in the acceptance and success TYTON enjoys today.

The designing and manufacturing capabilities of TYTON range widely to include Marine, Turbine and Industrial applications of many kinds.

You are invited to consult us on any application. TYTON's technical response will prove to be rapid and total.



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