



STOPLIK SERVICES (I) PVT. LTD.

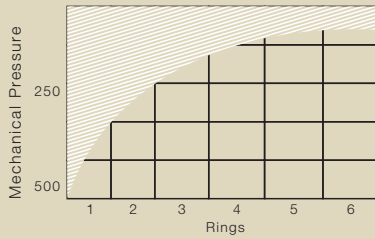
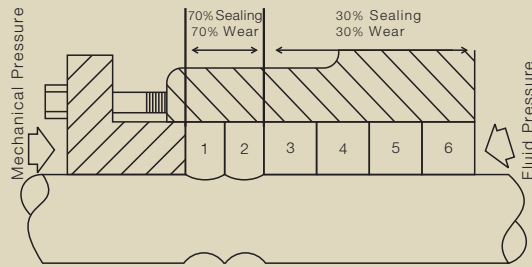
AN ISO 9001:2000 COMPANY

Light Years Ahead In Fluid Sealing...

Low / Zero Compression Patented Reinforced
Yarn Gland Packing And In-Situ Mold.



WHY LOW / ZERO COMPRESSION PATENTED REINFORCED YARN GLAND PACKING?

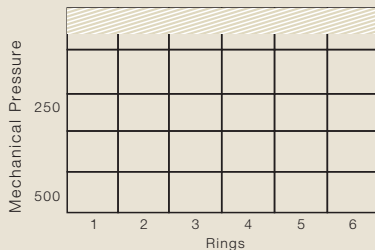
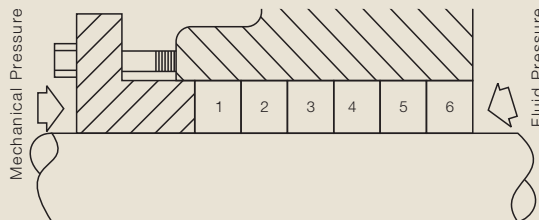


Conventional Compression Packing

As illustrated above, the outer two rings are over compressed & densified. They grab the shaft leading to excess heat generation, resulting in scoring of the sleeve. Free rotation of shaft is hindered putting a drag on the motor resulting in more energy consumption. Excess load on the motor can lead to burnouts.

Difficulties Associated With Compression Gland Packing

- Frequent gland leakage.
- Frequent Tightening.
- Glazing and hardening of glands.
- Scoring of Shaft / sleeve.
- Loss of pressure / temperature.
- Increase in batch time.
- Loss of recovered gases / liquid.
- Lowering of yield / purity.
- High energy consumption.
- High labour / Maintenance costs.



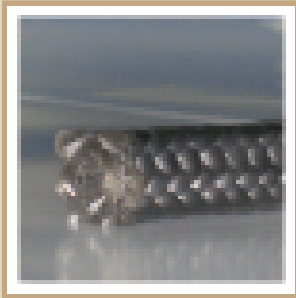
Low / Zero Compression Packing

Advantages of Patented Reinforced Yarn Gland Packing

- Individual Yarn is reinforced which provides enhanced recuperation to the gland packing.
- Due to recuperation the pressure transfer is almost equal.
- The sealing starts from innermost ring with bare minimum gland pressure.
- Damage to shaft/sleeve is reduced to an extent without increasing load on motor.
- Frequency of gland follower tightening is reduced by using reinforced yarn packing, thus reducing the maintenance.
- Reinforced yarn packing provides satisfactory performance for longer duration, thus down time & production loss is reduced remarkably.

As illustrated here above packing does not grab the shaft hence no heat generation. The packing material is self-lubricating, has an extremely low coefficient of friction and exhibits excellent heat transfer characteristics. This results in unbelievable sealing performance.

STOPLIK STYLE 7400 / 7499 (Covered Under Design Patent Registration No. 178193)



Structure: PTFE / Graphite yarn reinforced with Graphited fibre.

Equipment: Centrifugal pumps, thermic fluid pumps, agitator reactor vessels and glass lined reactors etc.

Application: Recommended for slurry application with very acidic or alkaline pH along with Stoplik Style 8000E or In-Situ Mold Stoplik Style 77 HS, can also be used for thermic fluid pumps intermittently. **Stoplik Style 7499 is recommended for harsh slurry application.**

Service Parameters:

Temperature: 280°C (350°C Intermittently)

pH range: 0-14

Shaft speed: 22m/s

Max pressure: 210kg/cm²

STOPLIK STYLE 99 (Covered Under Design Patent Registration No. 178195)



Structure: PTFE / Graphite yarn reinforced with Synthetic fibre.

Equipment: High speed centrifugal and reciprocating pumps, cooling tower pumps, ash slurry pumps, water ring vacuum pumps, condensate extraction pumps, boiler feed pumps, mixers, agitator reactor vessels, rotary vacuum driers, valves, refiner and pulp transfer pumps in pulp and paper industries etc.

Application: Recommended for acids, alkalies, slurry, sea-water.

Service Parameters:

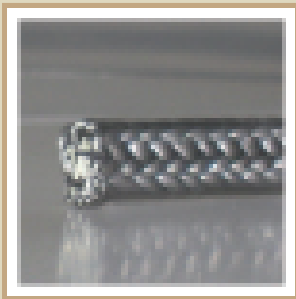
Temperature: 260°C

pH range: 3-12

Shaft speed: 22m/s

Max pressure: 210kg/cm²

STOPLIK STYLE 707 (Covered Under Design Patent Registration No. 178194)



Structure: PTFE / Graphite yarn reinforced with Aramid fibre.

Equipment: High pressure reciprocating pumps, carbamate pumps, phosphate dosing pumps, high pressure agitator reactor vessels, valves etc.

Application: Recommended for chemicals, dyes and intermediates, pesticide and fertilizer industries, thermal power stations etc.

Service Parameters:

Temperature: 260°C

pH range: 3-12

Shaft speed: 22m/s

Max pressure: 230kg/cm²

STOPLIK STYLE 5588 (Covered Under Design Patent Registration No. 174483)



Structure: PTFE / Graphite yarn reinforced with Graphited and recuperating Synthetic fibre.

Equipment: Mixers, agitator reaction vessels etc.

Application: Recommended for specific applications.

Service Parameters:

Temperature: 260°C

pH range: 0-14

Shaft speed: 22m/s

Max pressure: 210kg/cm²

STOPLIK STYLE 3400 (Covered Under Design Patent Registration No. 178191)



Structure: PTFE yarn reinforced with Graphited fibre.

Equipment: Centrifugal pumps, agitator reactors, mixers, glass lined reactors, rotary vacuum driers etc.

Application: Recommended for organic solvents and volatile chemicals including benzene, toluene, acetone, xylene, ethanol, methanol, ammonia, mono chloro benzene, carbon tetrachloride, chloroform etc.

Service Parameters:

Temperature : 260°C

Shaft speed : 5m/s

pH range: 0-14

Max pressure: 160kg/cm²

STOPLIK STYLE 33 (Covered Under Design Patent Registration No. 178192)



Structure: PTFE yarn reinforced with Synthetic fibre.

Equipment: Reciprocating and centrifugal pumps, water ring vacuum pumps, mixers, agitator reactor vessels, autoclaves, rotary vacuum driers etc.

Application: Recommended for handling chemicals where Graphite contamination is not desirable.

Service Parameters:

Temperature: 260°C

Shaft speed: 5m/s

pH range: 3-12

Max pressure: 160kg/cm²

STOPLIK STYLE 303 (Covered Under Design Patent Registration No. 178194)



Structure: PTFE yarn reinforced with Kevlar fibre.

Equipment: High pressure reciprocating pumps, high pressure agitator reactor vessels, carbamate pumps, phosphate dosing pumps and valves etc.

Application: Recommended for chemicals, dyes and intermediates, pesticides and fertilizer industries, thermal power stations etc.

Service Parameters:

Temperature: 260°C

Shaft speed: 5m/s

pH range: 3-12

Max pressure: 170kg/cm²

STOPLIK STYLE 4488 (Covered Under Design Patent Registration No. 174483)



Structure: PTFE yarn reinforced with recuperating Synthetic fibre.

Equipment: Agitator reactor vessels, mixers etc.

Application: Recommended for specific applications.

Service Parameters:

Temperature: 260°C

Shaft speed: 5m/s

pH range: 0-14

Max pressure: 120kg/cm²

STOPLIK CUSTOM BUILT* HOLLOW CORE PATENTED REINFORCED YARN GLAND PACKING



Structure: Reinforced PTFE and PTFE / Graphite yarn braided over square hollow rubber core.

Equipment: Agitator nutch filter, agitator reactor vessels, mixers, clinker grinder, etc. In chemical, drugs, dyes, pigments, pesticides, allied process industries and power stations etc.

Application: Stoplik Hollow Core packing is specifically designed to reduce packing wear and shaft / sleeve wear in slow rotating equipments with excess shaft run-out. Stoplik Hollow Core packing resists gland follower load and excess run-out or whip in shaft. Gland adjustments and repacking are greatly reduced.

Months of in-plant testing have proved that Stoplik's reinforced yarn packing with square hollow core will out last conventional packing in application associated with excessive shaft deflection on large shaft. Stoplik Hollow Core packing are offered as per the suitability of the application and service.

Service Parameters:

Temperature: 190°C

pH range: 0-14

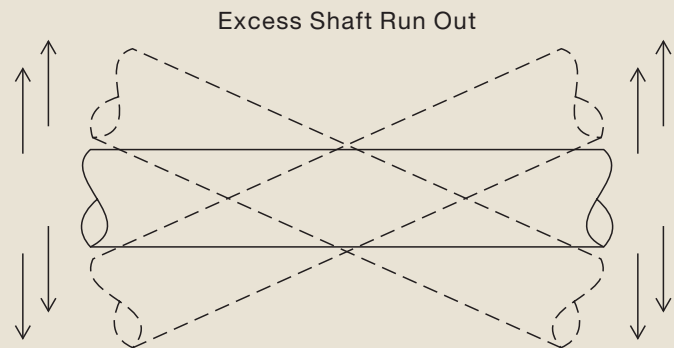
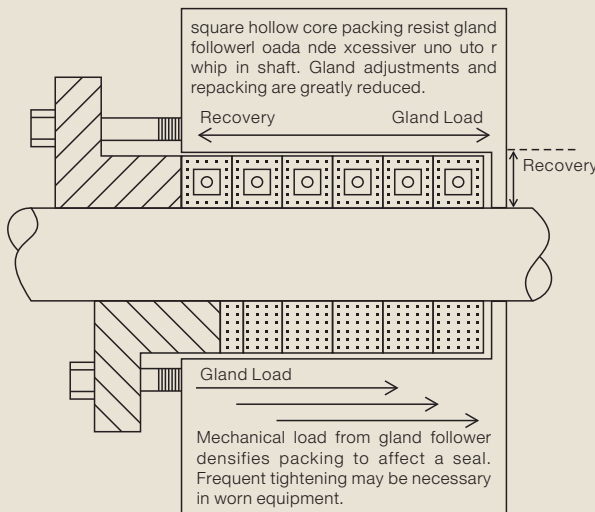
Shaft speed: 5m/s to 13m/s

Max pressure: 60kg/cm²

*THE PACKING IS OFFERED IN SIZE OF 1/2" AND ABOVE.



Above image shows a worn-out sleeve due to use of conventional packing.



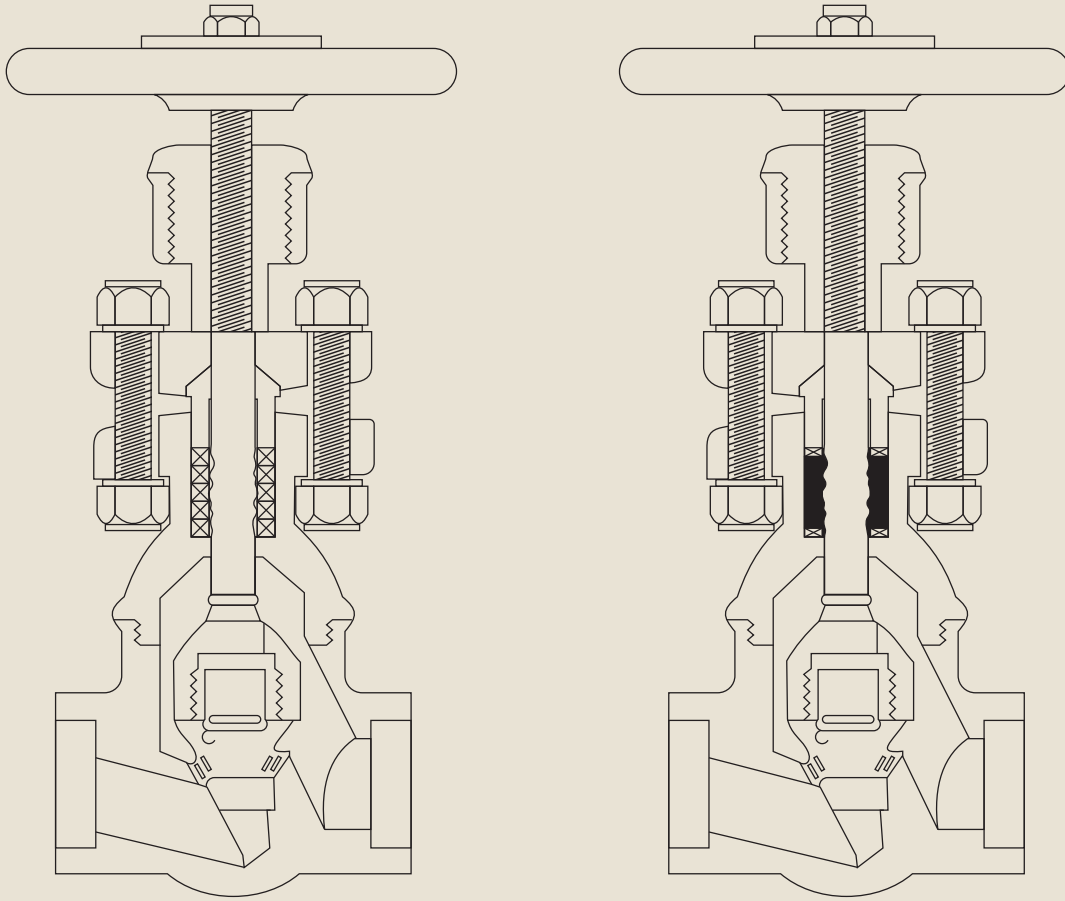
Advantages of Patented Reinforced Yarn Hollow Core Gland Packing:

- 100% custom built product.
- Rubber in the core provides recuperation, more than 95%.
- Excellent gland pressure transfer, more than 95%.
- Finger tightening of gland follower sealing, more than 98%.
- Packing length increases due to Hollow rubber core.
- Seals even in run out condition of shaft without damaging it.
- Resists gland follower load and excessive run out or whip in the shaft.

IN-SITU MOLD: IDEAL PACKING FOR SCORED SHAFTS, SLEEVES AND VALVE STEMS !!

Characteristics of In-Situ Mold: It flows in scored / shaft / stem and reduces wear. Regardless of size and shape of the stuffing box it forms itself to the configuration of the stuffing box by remolding itself. In-Situ Mold eliminates the need for stocking various sizes and types of gland packing. In-Situ Mold is highly recommended for application where equipment shut down causes critical conditions. In-Situ Mold stick packing is made of interlocking PTFE fibre which are inert and unaffected by acids, oils, alkalies, various alcohols, aviation gasoline or common solvents.

In-Situ Mold stick packing does not require any special tools or complicated application techniques. In-Situ Mold is available in 1/2" equilateral triangle cross section x 2.1/2" length sticks for easy handling.



Advantages of In-Situ Mold:

- Since it is in stick form, could be used with any size of Gland Packing.
- Being a soft and mouldable material, reduces wear and tear.
- Due to lubricating and fibrous material, it flows in the crevices / scoring.
- Only magic material in the world for scored and pitted valve stem / shaft / sleeve.
- In-Situ Mold reduces labour and down time resulting in additional savings.
- An ideal solution for inventory control.
- Emergency solution in non availability of exact size of gland packing.
- Can be used between existing damaged gland packing.

IN-SITU MOLD HS - STOPLIK STYLE 77 HS (Covered Under Design Patent Registration No. 178198)



Structure: Composed of interlocking PTFE fibre, consumable lubricants and exfoliated Graphite for enhanced lubrication and heat dissipation.

Application: Recommended for boiler feed water pumps, pulp stock paper pumps, water ring vacuum pumps, fire fighting pumps in ships, ash slurry pumps in power plants, handling hydrocarbons in petrochemical plants, agitator reactor vessels, glass lined reactors, autoclaves, vacuum driers, low pressure steam valves, flush bottom valves etc.

Best suitable with Stoplik Style 7400/7499, 99, 99HC, 707 & 5588.

Service Parameters:

Temperature: 260°C
Shaft speed: 12m/s

pH range: 0-14
Max pressure: 320kg/cm²

IN-SITU MOLD HT - STOPLIK STYLE 77 HT (Covered Under Design Patent Registration No. 178197)



Structure: Composed of 100% lubricating carbon fibre, exfoliated Graphite, high temperature and high pressure lubricants / proprietary synthetic binders.

Application: Recommended where shaft is scored and equipment is working at high temperature and high pressure. The inherent draw back associated with using pure carbon fibre of flexible tape/rings requiring stem/shaft finish of minimum 32 RMS is successfully overcome by using In-Situ Mold even on pitted valve stem or spindle.

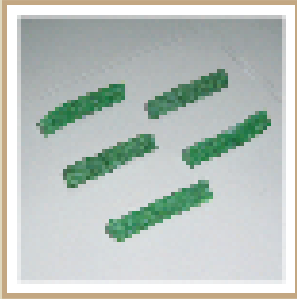
Best suitable with Stoplik Style 9001B and 9001C.

Service Parameters:

Temperature: 560°C
Shaft speed: 12m/s

pH range: 0-14
Max pressure: 380kg/cm²

IN-SITU MOLD - STOPLIK STYLE 77 (Covered Under Design Patent Registration No. 178196)



Structure: Composed of interlocking PTFE fibre and consumable lubricants.

Application: Recommended for reactors, RVD's, mixers, scored shaft & valve stem etc.

Best suitable with Stoplik Style 3400, 33, 303 and 4488.

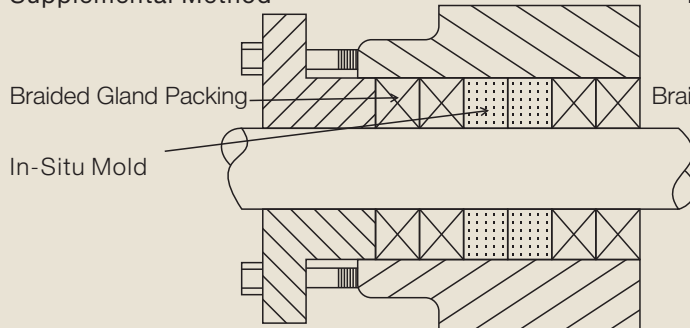
Service Parameters:

Temperature: 260°C
Shaft speed: 5m/s.

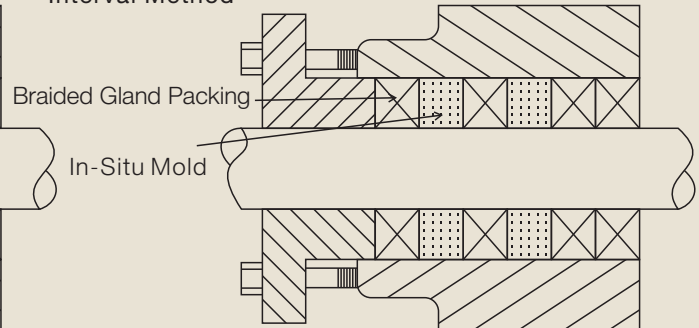
pH range: 0-14
Max pressure: 260kg/cm²

Method of application for In-Situ Mold

Supplemental Method



Interval Method





STOPLIK SERVICES (INDIA) PVT. LTD.

AN ISO 9001:2000 COMPANY

Light Years Ahead In Fluid Sealing...

Plot No. A/465, Road No. 28, Wagle Industrial Estate, Thane (W)-400 604, Maharashtra, India.

Tel.: +91-22-2582 6413 | 2582 1808 | 2583 4005 | Fax: 2582 2564,

Email: stoplik@vsnl.com | www.stoplikpackings.com

** Due to our policy of continuous product improvement, specifications are subject to change without prior notice.*