

# Modular Link Seal

Annular space sealing for pipe & cable penetrations

## Product Brochure



**SEALS  
PIPES & CABLES**



**MODULAR  
LINK SEAL SYSTEM**



**PRESSURE-TIGHT  
PROTECTION**

Designed for building, civil, utility, and industrial penetrations, with fast installation, retrofit suitability, and material options for standard, potable water, oil-resistant, and demanding service conditions.



A Modular Link Seal for your pipes

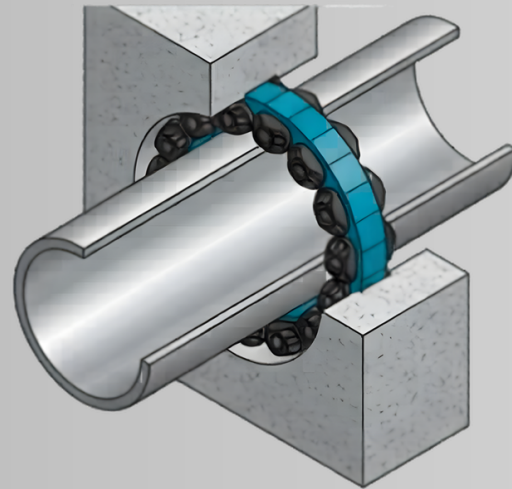
[www.ytmpipe.com](http://www.ytmpipe.com) | +90 (535) 269 02 92

# Totseal® Modular Seal



## System Overview

TotSeal® modular seals are engineered to provide a permanent mechanical seal for pipes and other cylindrical penetrations through casing pipes, walls, floors, and ceilings. Manufactured as an assembly of interconnecting rubber seal elements, the system compresses into the annular space to form a reliable hydrostatic barrier against water, soil, and backfill. TotSeal® is offered in 21 dimensional types to suit carrier pipe outside diameters from 10.0 mm to 3000.0 mm, depending on the selected type. Seal elements are available in EPDM, Nitrile, and Silicone compounds, with material properties reaching up to 1450 psi tensile strength and 400% elongation. For standard applications, TotSeal® provides hydrostatic sealing performance up to 1.4 bar (20 psig), or approximately 12 m (40 ft) of static head.



## Engineered Features

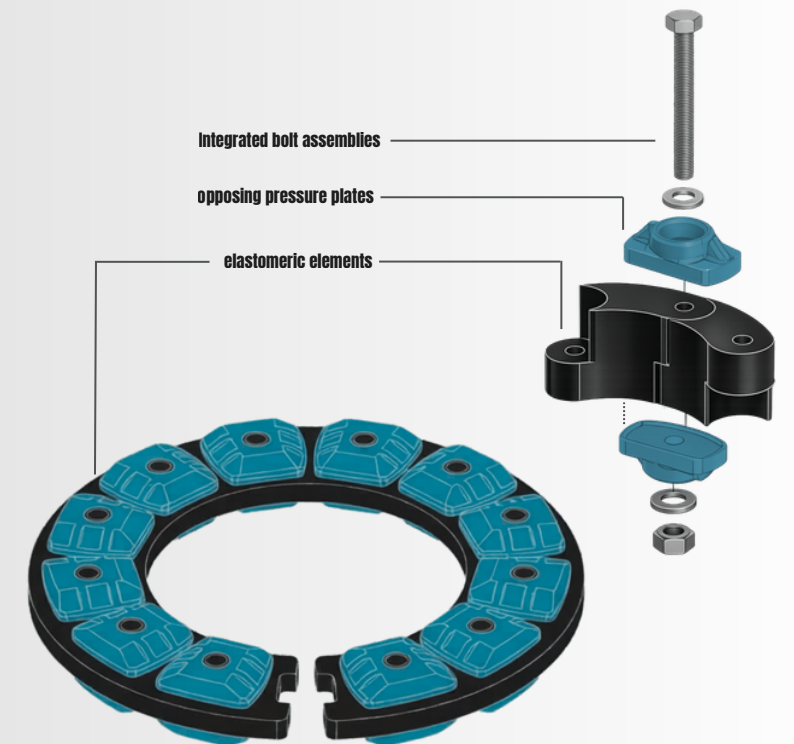
- Offered in 21 size configurations to suit a wide range of annular spaces
- Compatible with carrier pipe O.D. ranges from 10 mm to 3000 mm
- Dimensional options include actual thicknesses from 12.2 mm to 92.0 mm
- Designed for wall thickness requirements from 75 mm to 150
- Available in EPDM, Nitrile, and Silicone material options
- Delivers material properties of up to 1450 psi tensile strength and 400% elongation



## Working Principle

The system is shipped as a modular belt of interconnecting elastomeric links. During installation, the belt is wrapped around the carrier pipe, joined at the ends, and inserted into the annular space.

Tightening the integrated bolt assemblies draws the opposing pressure plates together, compressing the elastomeric elements. This uniform radial expansion creates a permanent, gas- and water-tight hydrostatic seal while simultaneously centering and structurally isolating the pipe within the penetration.



## Industry Applications



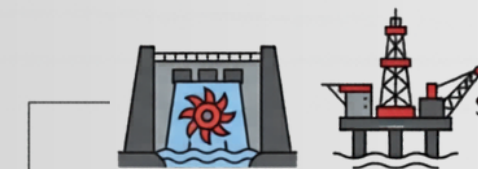
### Water & Wastewater:

Treatment plants, manhole entry seals, fluid overflow devices, septic tank installations.



### Infrastructure & Transport:

Cased road and railroad crossings, bridge construction, tunneling operations.



### Industrial & Power:

Power generation dams, coal preparation plants, offshore oil rigs, high-pressure tank guards, perimeter berms.



### Commercial Construction:

Fire protection wall penetrations, thermal storage systems, noise and sway dampening, precast concrete vault seals.



A Mdolur Link Seal for your pipes

# Link-Seal® Modular Seal



## CHOOSING THE RIGHT SEAT

Use the following method to select the correct Link-Seat. Calculate the annular space. The annular space is half the difference between the actual pipe O.D. and the actual wall opening I.D. . If you have selected the correct size Link-Seat modular seal, the free state thickness should be less than the annular space and the expanded state thickness should be more than the annular space (column 2 and 3).

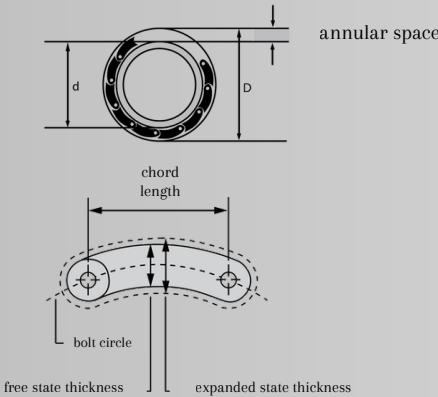
Wall Opening I.D. (D) – Actual Pipe O.D (d)

2

=

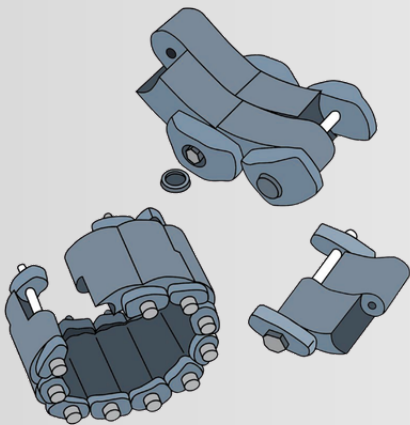
Annular Space

Select from the chart below the size closest to the annular space calculated. Usually more choices can be made due to size overlap.

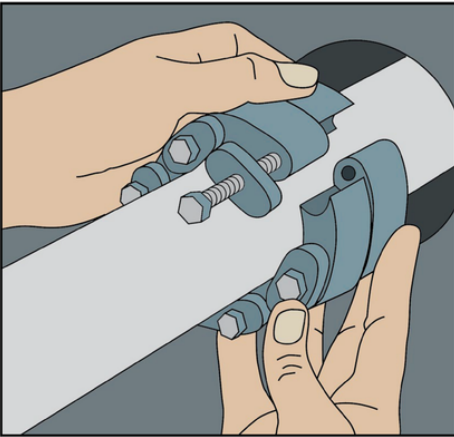


| Type            | Actual Thickness | Free State Thickness | Expanded State Thickness | Chord Length | Necessary Wall Thickness | Carrier Pipe O.D. Min | Carrier Pipe O.D. Max |
|-----------------|------------------|----------------------|--------------------------|--------------|--------------------------|-----------------------|-----------------------|
|                 | mm               | mm                   | mm                       | mm           | mm                       | mm                    | mm                    |
| TS 200          | 12.2             | 12.7                 | 15.7                     | 28.5         | 75.0                     | 21.3                  | 323.9                 |
| TS 265          | 15.5             | 16.0                 | 20.0                     | 41.0         | 75.0                     | 50.0                  | 406.4                 |
| TS 275          | 15.5             | 16.0                 | 20.0                     | 23.0         | 75.0                     | 10.0                  | 90.0                  |
| TS 300          | 17.5             | 18.0                 | 22.5                     | 38.5         | 100.0                    | 44.5                  | 250.0                 |
| TS 310          | 17.5             | 18.0                 | 22.5                     | 57.5         | 100.0                    | 60.3                  | 406.4                 |
| TS 315          | 20.5             | 21.1                 | 26.0                     | 38.5         | 100.0                    | 37.0                  | 315.0                 |
| TS 325          | 22.3             | 23.2                 | 29.0                     | 79.0         | 120.0                    | 133.0                 | 711.0                 |
| TS 340          | 25.5             | 26.5                 | 34.0                     | 40.0         | 120.0                    | 30.0                  | 323.9                 |
| TS 360          | 31.5             | 32.6                 | 42.0                     | 54.0         | 120.0                    | 40.0                  | 406.4                 |
| TS 400          | 35.0             | 36.3                 | 46.0                     | 92.0         | 140.0                    | 139.7                 | 1220.0                |
| TS 410          | 36.3             | 37.6                 | 48.5                     | 66.0         | 140.0                    | 60.3                  | 323.9                 |
| TS 425          | 27.0             | 28.4                 | 36.0                     | 92.0         | 140.0                    | 144.0                 | 1220.0                |
| TS 440          | 42.5             | 44.0                 | 55.0                     | 99.0         | 140.0                    | 139.7                 | 1220.0                |
| TS 475          | 39.6             | 41.2                 | 50.0                     | 66.8         | 140.0                    | 60.3                  | 1220.0                |
| TS 500          | 57.2             | 60.3                 | 71.5                     | 98.0         | 150.0                    | 100.0                 | 1220.0                |
| TS 525          | 52.3             | 54.5                 | 63.5                     | 98.0         | 150.0                    | 133.0                 | 1220.0                |
| TS 575          | 46.0             | 48.0                 | 58.0                     | 79.0         | 150.0                    | 130.0                 | 1220.0                |
| TS-600 / TS-615 | 78.5             | 81.5                 | 98.0                     | 152.5        | 150.0                    | 219.0                 | 3000.0                |
| TS 625          | 80.0             | 83.0                 | 98.0                     | 106.7        | 150.0                    | 133.0                 | 2000.0                |
| TS 650          | 69.0             | 71.0                 | 84.0                     | 106.0        | 150.0                    | 133.0                 | 2000.0                |
| TS 700          | 92.0             | 95.0                 | 110.0                    | 155.5        | 150.0                    | 219.6                 | 3000.0                |

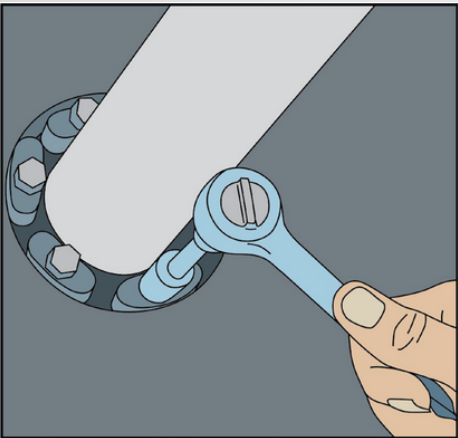
## INSTALLATION



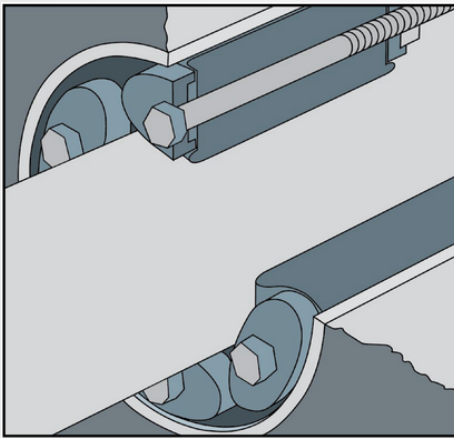
Link-Seals are delivered pre-assembled as a chain of rubber links.



1. Loosen the rear pressure plate with nut just enough to enable the links to move freely. Connect both ends of the belt around the pipe or cable. Number of links are indicated in the size chart.



2. Slide belt assembly into annular space. The seal bolt heads have to be recessed below the wall opening.



3. Use a hand socket or off-set wrench only. Start at 12 o'clock. Do not tighten any bolt more than 4 turns at a time. Continue in a clockwise manner until links have been equally compressed.

We urgently advise you to use hand tools only!

Information about products (construction, sizes etc) are only indicative and without further obligations. We are free to add modifications in case of development and improvement of our production. Our warranty is limited to damaged material found to be defective by production. The purchaser accepts full responsibility for purchased goods and installation of all goods furnished and for any defects or damage suffered as a result of defective installation of such goods.



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