Garlock
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SEAL & DESIGN INC.

SEAL & DESIGN HIGBEE

SEAL & DESIGN ABLE

GYLON BIO-LINE®

Quality PTFE seals for the pharmaceutical and food processing industries

Advancing the Science of Sealing™

Process and equipment reliability

In the pharmaceutical and food processing industries, down time is not desirable. Sterilization cycles are carried out in the shortest possible time with high concentrations of the chemicals, high temperatures and increased flow through velocities. With these requirements the limits of the elastomer sealing properties are quickly reached.
GYLON BIO-LINE® offers a new sealing material for all temperatures and processes.

If you are looking for a sealing material resistant to acids, caustics and sensitive media, performing at low and high temperatures and pressures, options are difficult to find. The available elastomers generally fail in at least one of these requirements and conventional PTFE is not suitable due to its cold flow properties.The restructured and modified PTFE of the GYLON BIO-LINE® is guaranteed to meet all these criteria. Not only providing safe and efficient processes but also optimizing stock keeping.

GYLON BIO-LINE® also resolves a further problem of the elastomeric seals. Elastomeric seals extrude from connections due to mechanical stresses from vibrations and misalignment. Extruded elastomeric seals create dead spaces that impair the cleaning and sterilization. The contamination of subsequent charges through residues on the sealing material could be a consequenze. GYLON BIO-LINE® seals remain flexible, tight and flush with the pipe bore even under high loads.

The pharmaceutical and food processing industries uses numerous types of seals whose standard sizes differ and overlap. One
example is ISO 1127 for internal pipe cross sections, which allows for several sealing profiles. We are well aware of these short comings and are happy to support you in selecting the optimum GYLON BIO-LINE® seal.

Advantages at a Glance

Stable dimensions	» No extrusion, no cold flow, high recovery
Temperature resistant	» Can be used at all process temperatures and with high temperature fluctuations
Resistant to media	» Almost universal chemical resistance, FDA compliant, meets USP Class VI
A seal for all chemicals and temperatures	» Reduces stock; reduces risk of improper installation
Additional advantages	» Maintains excellent sealing characteristics under vibration, flange misalignment and high temperature differentials » Can be installed in a wide range of pressure connections » Reduces down time and costs » Resistant to all SIP and CIP processes
Approvals	» EN 1935/2004 » USP Class VI » FDA-compliant » KTW-approved

GYLON BIO-ASEPT®

For aseptic flange connections in accordance with DIN 11853 and DIN 11864 (Form A).

Flange connections according to DIN 11853 (hygienic connections) and DIN 11864 (aseptic connections) place high requirements on the sealing rings. The quality of the elastomeric sealing products and materials, combined with their installation limits, varies enormously in the market place.
Acceptable aseptic connections are not always guaranteed.

GYLON BIO-ASEPT® seals offer high stability and a specific elasticity. The seals are pre-formed and stress controlled to provide a solid seal when assembled in the piping systems. Chemical degredation or brittleness will not occur under normal or even increasing process and sterilization conditions, due to specific, high performing PTFE sealing material.

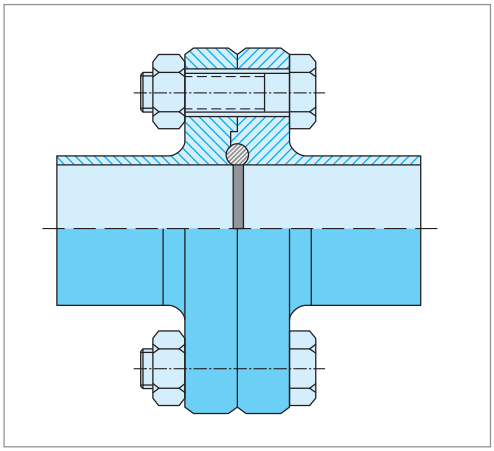
Technical Data

- Temperatures -210 °C to +260 °C
- Seal dimensions in accordance with DIN 11850 and ISO 1127
- Production location Germany

Characteristics

- No extrusion and no cold flow
- Excellent for all process temperatures
- High resistance to almost all chemicals and temperature cycles
- Meets EN 1935 / 2004, USP Class VI, FDA-compliant and KTW approved

Application



Aseptic flange connection in Off-Load design.

Nominal Sizes for Pipework

in accordance with DIN 11850 and ISO 1127:

DIN 11850 (DIN 11866 Series A) DN	ISO 1127 (DIN 11866 Series B) DN
10	13,5
15	17,2
20	21,3
25	26,9
32	33,7
40	42,4
50	48,3
65	60,3
80	76,1
100	88,9

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