



LOW EMISSION SEALING FOR VALVES

LATTYPACK OIL



IS / TRESSSES / JOINTS / GARNITURES / METAN
PACKUNGEN / FLACHDICHTUNGEN / GLEITR
LATTYPACK OIL
RNITURES MECANQUES / PACUNGEN
TUNGEN / GLEITRINGDICHTUNGEN / DICHTUN

Designer of industrial sealing solutions



INDUSTRY LEADING LOW FUGITIVE EMISSIONS LATTYPACK OIL



RINGS OR KIT SET,
READY TO USE



Excellent performance in demanding low fugitive emissions applications.

LATTYpack OIL is a stem packing consisting of die formed expanded graphite foil rings and braided anti-extrusion rings. Our unique formulation and design provide outstanding sealing efficiency under low compressive force, very low friction and excellent elastic recovery.

- **Contains a corrosion inhibitor for extended stuffing-box protection.**
- **Rings and kit sets designed to your specific equipment dimensions.**
- **Very low friction coefficient.**

Applications: Hydrocarbon, VOC (Volatile Organic Compounds), VHAP (Volatile Hazardous Air Pollutants), steam.



API 622 HT

Parameters (not associated)

Temperature (valve body): 450°C / 850°F (oxidizing atmosphere) ; 650°C / 1200°F (non-oxidizing)
Pressure: 450 bar / 6525 PSI
pH: 0-14



API 622

Reference	Square (mm / in)	Weight (kg / lbs)
900032127	4,0 mm / 0,15 in	1 kg / 2,20 lbs
900032128	5,0 mm / 0,19 in	1 kg / 2,20 lbs
900032129	6,0 mm / 0,23 in	1 kg / 2,20 lbs
900032130	6,3 mm / 0,24 in	1 kg / 2,20 lbs
900032131	8,0 mm / 0,31 in	3 kg / 6,61 lbs
900032132	9,5 mm / 0,37 in	3 kg / 6,61 lbs
900032133	10,0 mm / 0,39 in	3 kg / 6,61 lbs
900032134	11,0 mm / 0,43 in	3 kg / 6,61 lbs
900032135	12,0 mm / 0,47 in	3 kg / 6,61 lbs
900032136	12,7 mm / 0,50 in	3 kg / 6,61 lbs
900032137	14,0 mm / 0,55 in	5 kg / 11,02 lbs

Other dimensions on request

Applications: Hydrocarbon, VOC (Volatile Organic Compounds), VHAP (Volatile Hazardous Air Pollutants), steam,

BRAIDED PACKING
EASY MAINTENANCE



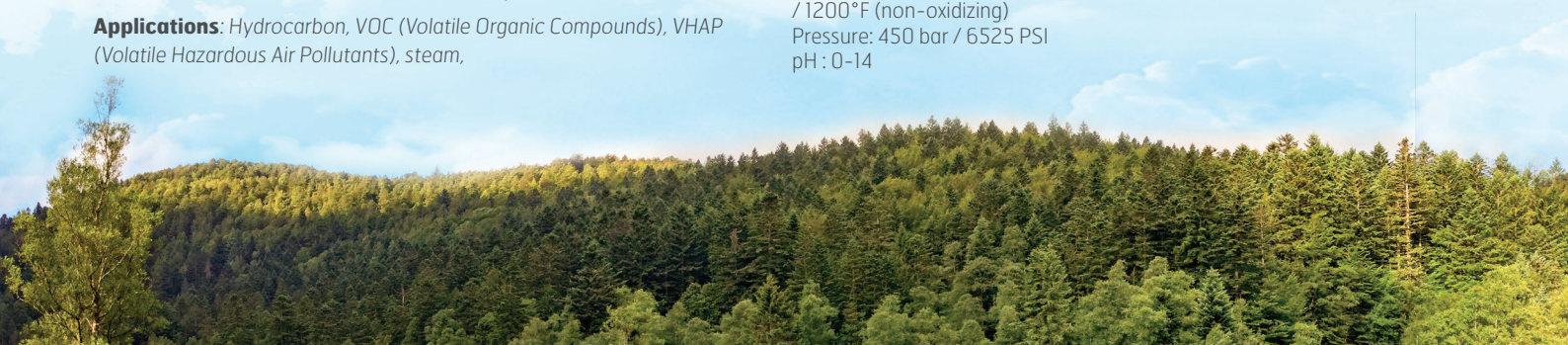
For fast and easy maintenance with low emission performance

Packing made of expanded graphite with Nickel-Chrome alloy (Inconel®) reinforcement with a graphite mix and infused with a friction reducing agent.

- **Contains passive corrosion inhibitors that provides long life stem protection**
- **Meets leak detection and repair best practices**
- **One solution addresses the needs of a broad range of application conditions, simplifying inventory of maintenance requirements.**

Parameters (not associated)

Temperature (Valve in-line): 450°C / 850°F (oxidizing atmosphere) ; 650°C / 1200°F (non-oxidizing)
Pressure: 450 bar / 6525 PSI
pH: 0-14



LATTYPACK OIL API 622 3RD EDITION APPROVED

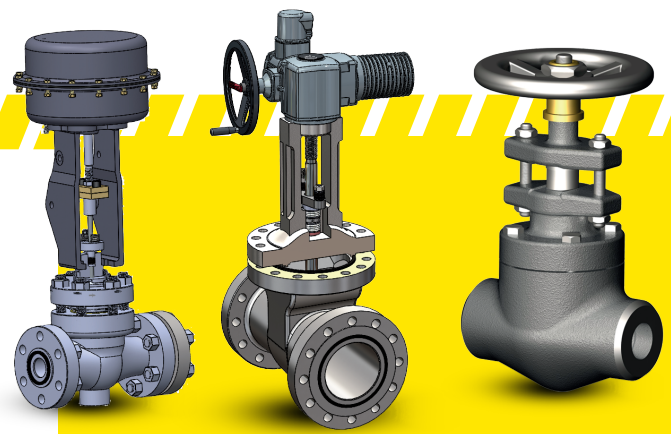
API STANDARD 622 HIGH TEMPERATURE (HT):

- 2 leak tests with methane on 1/4" and 1/8" packing square sections. Pressure 41.4 bar/600 PSI with temperature cycling up to 260°C/500°F. endurance 1,510 cycles

WITHOUT RETIGHTENING

- Chemical analyses & weight loss test
- Two galvanic corrosion tests are performed at high as well as at room temperature.
- For the **API 622 HT** standard, there are additional cycles at 425°C / 800°F with helium.

Testing conducted in a fixture in an independent laboratory.



SIGNIFICANT REDUCTION IN OPERATING COSTS

LATTYPACK OIL ensures

- **0% of corrosion to the stems**
- **Low emissions performance at only 40 MPa / 6000 PSI compression stress**
- **Friction reduced by 30%**

API 624 LEAK RATE < 2,7 PPMV

Leak test performed with a NPS 20 Class 150 valve, **WITHOUT RETIGHTENING**

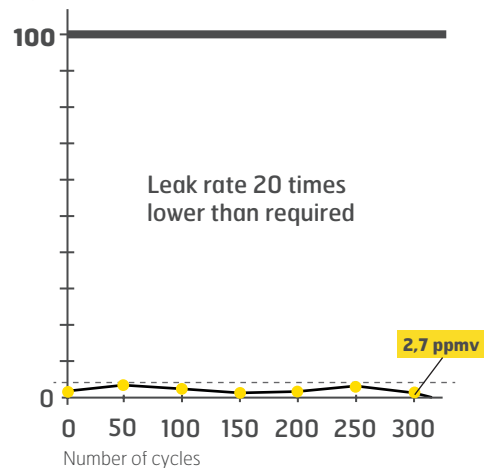
LOWEST COST AND ENVIRONMENTALLY FRIENDLY FOR ALL TYPES OF VALVES.

Following the completion of leak tests to meet API 624, the performance of LATTYPACK OIL ensures low VOC emissions for both small and larger-size valves.

After completing 310 cycles with a 20" valve, the leakage rate had reached a maximum of 2,7 PPMv well below the maximum allowable leak rate of 100 PPMv.

- **Lowest total cost of ownership**
- **Test performed without retightening**
- **Low maintenance**

Leakage rate (PPMv)



- 310 opening/closing cycles
- 3 thermal cycles at room temperature and at high temperature

LOW-EMISSION SEALING SOLUTIONS

LATTYPACK OIL

INNOVATIVE, ENVIRONMENTALLY FRIENDLY AND COST EFFECTIVE

GROUP LATTY through our R&D department satisfies any new requirements and keeps pace with changing standards, directives and specifications.

APPROVALS LATTYPACK OIL



Fugitive emissions qualified to:

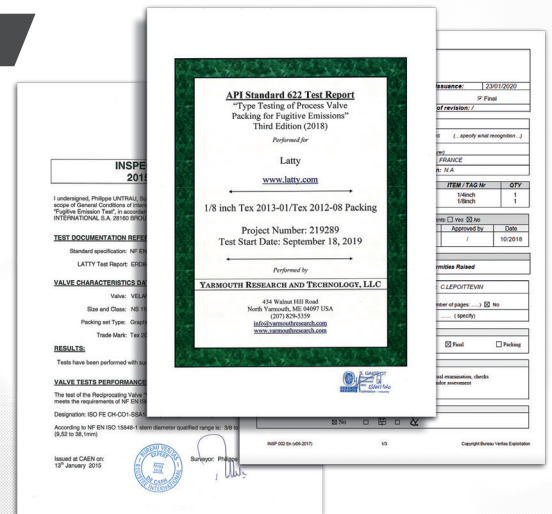
API 622 2018, 3rd edition
API 622 HT

Compliant with:
API 624
API 641
ISO 15848-1 BH 425°C C03
SHELL MESC SPE 85/203-204



Fire safety qualified to:

API 589,
API 607



Certificates available on request

TEST LABORATORY, OVER 500 SQ. M. (5,000 SQ. FT.), SPECIALISING IN INDUSTRIAL VALVES

Our equipment allows us to test sealing solutions on your own equipment under your specific parameters and conditions:

- **Temperature: -196°C to 650°C / -321°F to 1,200°F**
- **Pressure: vacuum to 650 bar / 9,425 PSI for gas applications or 0 to 700 bar 10,150 PSI for liquid applications.**

Our valve test rigs support every sealing product development in YOUR VALVE. To date, we have performed over 100 approvals, with a 3rd part laboratory witness, on equipment such as:

- **Control valves**
- **Valves: on/off, 1/4 turn, multi-turn, linear**
- **Valves from NPS 1 to 10, up to ANSI Class 2500.**





Over 105 years' experience as a **designer and manufacturer of industrial sealing solutions**

GROUPE LATTY has 15 sites worldwide to support your global operations. For over a century Groupe LATTY has developed and designed the most efficient and innovative sealing solutions for your multiple industrial needs. Thanks to our single industrial hub, we co-locate our production facilities and our R&D center with our integrated quality control department to ensure the highest quality

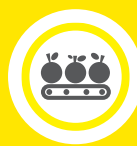
level to meet your requirements. By investing 5% of Groupe LATTY revenues every year in research and development, Groupe LATTY stays at the forefront of innovation.

Solutions designed to the requirements of Industry

GROUPE LATTY invests daily in solutions that respect and ensure the safety of personnel, equipment and protection of the environment.



Energy production



Food



Pharmaceutical



Oil and gas



Mines and quarries



Water treatment



Paper



Chemical



Marine

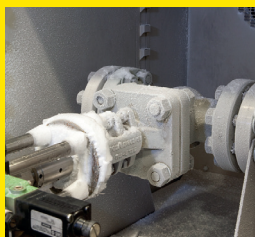
Training sessions dedicated to sealing solutions on industrial valves or fittings.

The focus of our training modules is on the implementation of best practices in the assembly of stuffing boxes and static seals, essential for the safety for your personnel and equipment reliability.

Every year, we organize a number of multilingual training sessions at our production site or on the customer's premises. GROUPE LATTY is an approved training organization.

Comprehensive **Fugitive Emission Solutions**

These new, next generation seals reduce emissions and are used for a broad range of demanding applications.



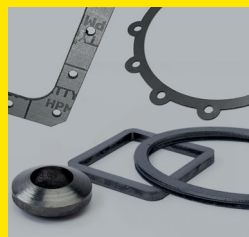
CRYOGENIC



ISO HT SOLUTION



HYBRID SOLUTION
CONTROL VALVE
ULTRA LOW FRICTION



BODY BONNET GASKETS
SUPPORT RING
GUIDE BEARING



LIVE LOADING SYSTEM

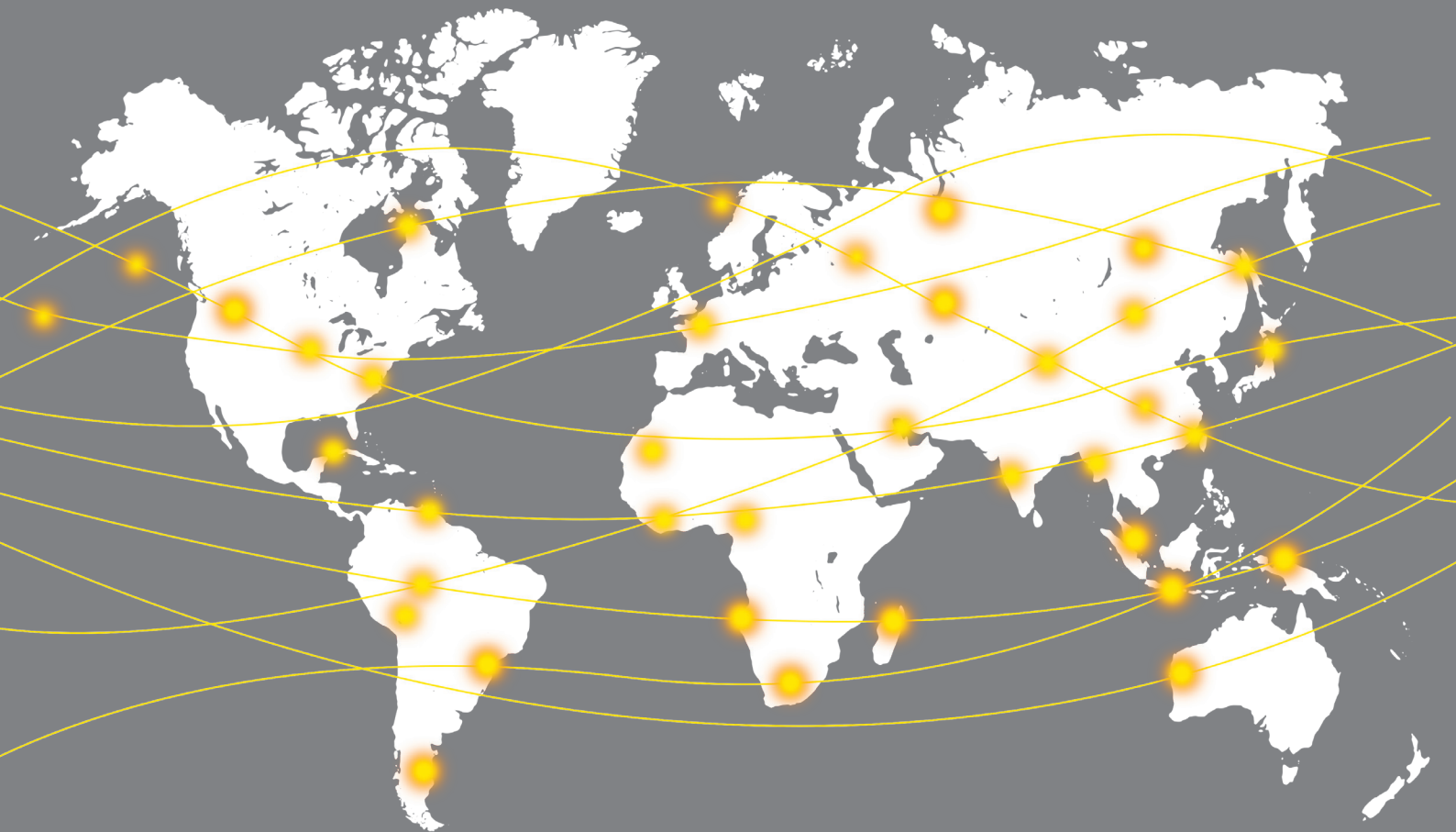


Fugitives emissions



Oxygen

- **APPROVALS :**
- ISO 15848-1 AH 2500 Class and BH Cryo
- BAM, TA LUFT



The subsidiaries and service centres of the GROUPE LATTY are at your disposal throughout the world to meet your requirements. Find all our contact details on our website.



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GEN / FLACHDICHTUNGEN / GLEITRINGDICHTUNGEN / DREHDURCHFÜHRUNG /
PACKINGS / JOINTINGS / MECHANICAL SEALS / ROTARY UNIONS / PACKINGS /
PAQUETADURAS / JUNTAS / CIERRES MECANICOS / JUNTAS ROTATIVAS / EMPA

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