

# Static Seals



T +450 °C P 13 MPa (130 bar)

## LATTY®carb 96

### CARBON ARAMID SHEETS

#### Carbon = Suppleness + Cutting Ease

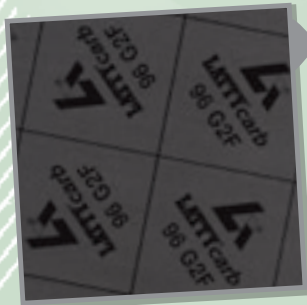
Calendered gasket material made of selected carbon and mineral fibres bonded with a mix of synthetic elastomers. Anti-adhesive treatment on both faces.

*High-performance material which meets most applications: steam, high-pressure applications, all hydrocarbons.*

*Limitation: For highly corrosive fluids, prefer LATTY®gold 5 ACID.*

Approval: BAM (oxygen), DVGW (gas), KTW (drinking water), WRC (drinking water), TÜV (VDI 2440).

Article #		Description
46630	0.5 mm	1 m x 1.5 m
43948	1.0 mm	1 m x 1.5 m
43949	1.5 mm	1 m x 1.5 m
43950	2.0 mm	1 m x 1.5 m
43951	3.0 mm	1 m x 1.5 m
67475	0.5 mm	1.5 m x 2 m
47859	1.0 mm	1.5 m x 2 m
48651	1.5 mm	1.5 m x 2 m
47860	2.0 mm	1.5 m x 2 m
47068	3.0 mm	1.5 m x 2 m
69766	1.0 mm	1.5 m x 1.5 m
69767	1.5 mm	1.5 m x 1.5 m
50172	2.0 mm	1.5 m x 1.5 m
51421	3.0 mm	1.5 m x 1.5 m



T +450 °C P 13 MPa (130 bar)

## LATTY®carb 96 G2F

### CARBON ARAMID SHEETS

#### Carbon = Suppleness + Cutting Ease

The anti-adhesive treatment applied on LATTY®carb 96 is being replaced on LATTY®carb 96 G2F with a special graphite coating on both faces, which makes disassembling operations extremely fast and minimises flange corrosion.

*High-performance material which meets most applications: steam, high-pressure applications, all hydrocarbons.*

*Limitation: For highly corrosive fluids, prefer LATTY®gold 5 ACID.*

Article #		Description
43953	1.0 mm	1 m x 1.5 m
43954	1.5 mm	1 m x 1.5 m
43955	2.0 mm	1 m x 1.5 m
43956	3.0 mm	1 m x 1.5 m
50026	1.0 mm	1.5 m x 2 m
50027	1.5 mm	1.5 m x 2 m
49924	2.0 mm	1.5 m x 2 m
49925	3.0 mm	1.5 m x 2 m



T +450 °C P 15 MPa (150 bar)

## LATTY®carb 96S

### CARBON ARAMID SHEETS

#### Carbon = Suppleness + Cutting Ease

Calendered gasket material made of selected carbon and mineral fibres bonded with a mix of synthetic elastomers, **reinforced** with an internal steel wire mesh. A special graphite coating, applied on both faces, makes disassembling operations extremely fast and minimises flange corrosion.

*High-performance material which meets most applications: steam, high-pressure applications, all hydrocarbons. Particularly suited for large dimension gaskets.*

*Limitation: For highly corrosive fluids, prefer LATTY®gold 5 ACID.*

Article #		Description
43961	1.0 mm	1 m x 1.5 m
43962	1.5 mm	1 m x 1.5 m
43963	2.0 mm	1 m x 1.5 m
43964	3.0 mm	1 m x 1.5 m
49194	1.0 mm	1.5 m x 2 m
49512	1.5 mm	1.5 m x 2 m
47253	2.0 mm	1.5 m x 2 m
47861	3.0 mm	1.5 m x 2 m



T +440 °C P 10 MPa (100 bar)

## LATTY®gold 92

### ARAMID SHEETS

#### Efficient - Reliable - Multipurpose

Calendered gasket material made of selected synthetic and mineral fibres, bonded with a special acrylonitrile-elastomer mix. Anti-adhesive treatment on both faces.

*General purpose gasket: chemical and petrochemical industries, power production.*

*Limitation: For high temperature steams, prefer LATTY®carb 96 and for highly corrosive fluids LATTY®gold 5 ACID.*

Approval: BAM (oxygen), DVGW (gas), KTW (drinking water), WRC (drinking water), PMUC 17-053.

Article #		Description
21734	0.5 mm	1 m x 1.5 m
26221	0.8 mm	1 m x 1.5 m
21411151	1.0 mm	1 m x 1.5 m
21471151	1.5 mm	1 m x 1.5 m
21421151	2.0 mm	1 m x 1.5 m
21431151	3.0 mm	1 m x 1.5 m
24821	4.0 mm	1 m x 1.5 m
46349	0.5 mm	1.5 m x 2 m
27688	0.8 mm	1.5 m x 2 m
28898	1.0 mm	1.5 m x 2 m
27689	1.5 mm	1.5 m x 2 m
26041	2.0 mm	1.5 m x 2 m
27690	3.0 mm	1.5 m x 2 m
50025	4.0 mm	1.5 m x 2 m
40210	1.0 mm	1.5 m x 1.5 m
40337	1.5 mm	1.5 m x 1.5 m
40338	2.0 mm	1.5 m x 1.5 m
39897	3.0 mm	1.5 m x 1.5 m



T +440 °C P 10 MPa (100 bar)

## LATTY®gold 92 G2F

### ARAMID SHEETS

#### Efficient - Reliable - Multipurpose

The anti-adhesive treatment applied on LATTY®carb 92 is being replaced on LATTY®carb 92 G2F with a special graphite coating on both faces, which makes disassembling operations extremely fast and minimises flange corrosion.

*General purpose gasket: chemical and petrochemical industries, power production.*

*Limitation: For high temperature steams, prefer LATTY®carb 96 G2F and for highly corrosive fluids LATTY®gold 5 ACID.*

Approval: PMUC 17-235.

Article #		Description
43019	1.0 mm	1 m x 1.5 m
43020	1.5 mm	1 m x 1.5 m
43021	2.0 mm	1 m x 1.5 m
43022	3.0 mm	1 m x 1.5 m
50436	1.0 mm	1.5 m x 2 m
50437	1.5 mm	1.5 m x 2 m
46655	2.0 mm	1.5 m x 2 m
46656	3.0 mm	1.5 m x 2 m





T +440 °C P 13 MPa (130 bar)

## LATTY®gold 925

### ARAMID SHEETS

#### Efficient - Reliable - Multipurpose

Calendered gasket material made of selected synthetic and mineral fibres bonded with a special acrylonitrile-elastomer mix, **reinforced** with an internal steel wire mesh. A special graphite coating, applied on both faces, makes disassembling operations extremely fast and minimises flange corrosion.

**General purpose gasket: chemical and petrochemical industries, power production. Particularly suited for large dimension gaskets.**

**Limitation: For high temperature steams, prefer LATTY®carb 965 and for highly corrosive fluids LATTY®gold 5 ACID.**

Approval: PMUC 17-237.

Article #	Thickness	Description
21511151	1.0 mm	1 m x 1.5 m
21571151	1.5 mm	1 m x 1.5 m
21521151	2.0 mm	1 m x 1.5 m
21531151	3.0 mm	1 m x 1.5 m
34706	1.0 mm	1.5 m x 2 m
48236	1.5 mm	1.5 m x 2 m
46348	2.0 mm	1.5 m x 2 m
46347	3.0 mm	1.5 m x 2 m



T +300 °C P 6 MPa (60 bar)

## LATTY®gold 32

### ARAMID SHEETS

#### Economy

Calendered gasket material made of synthetic fibres bonded together with a mix of NBR-SBR elastomers.

Anti-adhesive treatment on both faces.

**Applications for all slightly aggressive fluids (water, oils, fuels, etc.).**

Approval: BAM, DVGW, TÜV (VDI 2440), KTW, WRAS.

Article #	Thickness	Description
23488	1.0 mm	1 m x 1.5 m
23489	1.5 mm	1 m x 1.5 m
23490	2.0 mm	1 m x 1.5 m
23491	3.0 mm	1 m x 1.5 m
46928	1.0 mm	1.5 m x 2 m
27692	1.5 mm	1.5 m x 2 m
26492	2.0 mm	1.5 m x 2 m
27693	3.0 mm	1.5 m x 2 m



T +200 °C P 6 MPa (60 bar)

## LATTY®gold 5 ACID

### ARAMID SHEETS

#### An Alternative to PTFE for Aggressive Environments

Calendered gasket material made of selected synthetic fibres bonded together with a mix of special resins and elastomers resisting to highly aggressive fluids.

**High-performance material specially designed for applications with highly corrosive fluids: mineral acids, bases and strong oxidants.**

Article #	Thickness	Description
43970	1.0 mm	1 m x 1.5 m
43971	1.5 mm	1 m x 1.5 m
43972	2.0 mm	1 m x 1.5 m
43973	3.0 mm	1 m x 1.5 m
46099	1.0 mm	1.5 m x 2 m
49403	1.5 mm	1.5 m x 2 m
46100	2.0 mm	1.5 m x 2 m
46101	3.0 mm	1.5 m x 2 m



T -210 °C to + 260 °C

P Vacuum to 8 MPa (80 bar) pH 0 - 14

## LATTY®flon 94 L

### PTFE SHEETS

#### Modified Filled PTFE for Industrial Applications

**LATTY®flon 94 L** is a modified filled PTFE sheet.

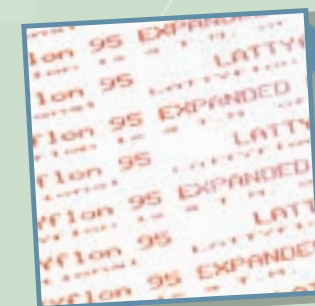
Its isotropic structure gives a high resistance to creep and its elastic recovery guarantees a high sealing performance.

**Suitable for most chemical applications.**

**Limitation: Not to be used on fluorine-containing gases or molten alkali metals.**

Approval: BAM (oxygen), FDA: 177-1550 (CFR 21), PMUC 17-188.

Article #	Thickness	Description
72477	0.5 mm	1.5 m x 1.5 m
69536	1.0 mm	1.5 m x 1.5 m
56306	1.5 mm	1.5 m x 1.5 m
56307	2.0 mm	1.5 m x 1.5 m
58754	3.0 mm	1.5 m x 1.5 m



T -240 °C to +270 °C

P Vacuum to 21 MPa (210 bar) pH 0 - 14

## LATTY®flon 95

### PTFE SHEETS

#### Aggressively Priced Expanded PTFE for Aggressive Environments

**LATTY®flon 95** is a pure expanded PTFE material, whose high malleability allows sealing of even damaged flanges, while its very low relaxation under load guarantees high fitting reliability.

Requiring a low tightening force, **LATTY®flon 95** is recommended for the fitting of fragile glass lined or plastic flanges.

**Suitable for most chemical applications.**

**Limitation: Not to be used on fluorine-containing gases or molten alkali metals.**

Approval: FDA: 177-1550 (CFR 21).

Article #	Thickness	Description
50353	1.0 mm	1.5 m x 1.5 m
50354	1.5 mm	1.5 m x 1.5 m
50355	2.0 mm	1.5 m x 1.5 m
50190	3.0 mm	1.5 m x 1.5 m
69979	6.0 mm	1.5 m x 1.5 m

Manufactured upon request only. Please consult us.



T -100 °C to +250 °C
P 10 MPa (100 bar)      pH 0 - 14

## LATTY®flon 97

### PTFE MOLDED IN-SHAPE GASKETS

#### The Resistance of Steel insideThe Chemical Resistance of PTFE

Molded In-Shape PTFE gasket over a ISO 1.4306 perforated stainless steel insert.

**LATTY®flon 97** offers an outstanding resistance to cold creep due to the specific design of the perforated plate reinforcement. **LATTY®flon 97** is very resistant to moisture that it does not absorb.

*All chemical industries, machine building, aviation and astronautics, food-processing industry.*

*Suitable with most chemicals, strong acids and bases.*

*Limitation: Not to be used on fluorine-containing gases or molten alkali metals.*

Approval: TÜV (gas), FDA: 177-1550 (CFR 21).

Article #	Dimensions	PN10	PN16	PN25	PN40
43442	DN 15	●	●	●	●
43443	DN 20	●	●	●	●
43444	DN 25	●	●	●	●
43445	DN 32	●	●	●	●
43446	DN 40	●	●	●	●
42996	DN 50	●	●	●	●
43447	DN 65	●	●	●	●
43448	DN 80	●	●	●	●
43449	DN 100	●	●	●	●
54803	DN 100	●	●	●	●
45653	DN 125	●	●	●	●
58531	DN 125	●	●	●	●
43450	DN 150	●	●	●	●

Article #	Dimensions	PN10	PN16	PN25	PN40
56533	DN 150	●	●	●	●
61344	DN 200	●	●	●	●
61345	DN 200	●	●	●	●
61346	DN 200	●	●	●	●
61347	DN 250	●	●	●	●
61348	DN 250	●	●	●	●
61349	DN 250	●	●	●	●
61835	DN 250	●	●	●	●
61351	DN 300	●	●	●	●
61352	DN 300	●	●	●	●
61354	DN 350	●	●	●	●
61355	DN 350	●	●	●	●

Manufactured upon request only. Please consult us.



T -200 °C to +650 °C
P 65 MPa (650 bar)      pH 0 - 14

## LATTY®graf EFA

### EXPANDED GRAPHITE SHEETS

#### Highest Pressure Temperature Rating

Double layer of 98% pure expanded graphite material laminated and clamped over a tanged ISO 1.4404 stainless steel insert. Cohesion forces hold this composite structure together without any bonding agent.

**LATTY®graf EFA** offers both the highest performance in Pressure Temperature Rating and the most convenient product for all blind assemblies due to its rigidity.

*Pipework flange gaskets, casing cover gaskets for valves, manhole gaskets.*

*All environments (except strong oxidising ones).*

*Chemical and petrochemical industries, energy, all industrial applications in general.*

Approval: BAM (oxygen).

Article #	Thickness	Description
38799	1.5 mm	1 m x 1 m
38797	2.0 mm	1 m x 1 m
38798	3.0 mm	1 m x 1 m
77600	1.5 mm	1.5 m x 1.5 m
71836	2.0 mm	1.5 m x 1.5 m
71837	3.0 mm	1.5 m x 1.5 m



T -200 °C to +650 °C
P 65 MPa (650 bar)      pH 0 - 14

## LATTY®graf EFA G2F

### EXPANDED GRAPHITE SHEETS

#### Highest Pressure Temperature Rating

**LATTY®graf EFA G2F**, structurally identical to **LATTY®graf EFA**, adds a special graphite coating on both faces, which makes disassembling operations extremely fast.

*Pipework flange gaskets, casing cover gaskets for valves, manhole gaskets.*

*All environments (except strong oxidising ones).*

*Chemical and petrochemical industries, energy, all industrial applications in general.*

Article #	Thickness	Description
43815	1.5 mm	1 m x 1 m
39654	2.0 mm	1 m x 1 m
44840	3.0 mm	1 m x 1 m



T -200 °C to +650 °C
P 65 MPa (650 bar)      pH 0 - 14

## LATTY®graf EFAI

### EXPANDED GRAPHITE SHEETS

#### Highest Pressure Temperature Rating

**LATTY®graf EFAI**, structurally identical to **LATTY®graf EFA**, adds a special organic impregnation coating on both faces, which speeds up disassembling operations and reduces surface leak rate under low tightening pressure.

*Pipework flange gaskets, casing cover gaskets for valves, manhole gaskets.*

*All environments (except strong oxidising ones).*

*Chemical and petrochemical industries, energy, all industrial applications in general.*

Approval: BAM (oxygen).

Article #	Thickness	Description
24287	1.5 mm	1 m x 1 m
24285	2.0 mm	1 m x 1 m
24288	3.0 mm	1 m x 1 m



**Cut out facility**

T -210 °C to +650 °C

P 65 MPa (650 bar)

pH 0 - 14

## LATTY® graf EFMC @

### EXPANDED GRAPHITE GASKET MATERIAL

#### Pure performance

Multilayer of thin thickness of expanded graphite combined with stainless steel sheets specially designed to promote adherence of the graphite without gluing. This clipped assembly enables the product to retain the intrinsic properties of the flexible graphite and make handling of sheets and realisation of cut joints easy.

*Joints for pipe flanges, body/bonnet joints for valves, cover and manhole joints.*

*Compatible with all fluids except strong oxidants Chemical, energy, petrochemical and all industrial applications in general.*

Fire test API 589.

Article #	Thickness	Description
82762	1.5 mm	1 m x 1 m
82763	2.0 mm	1 m x 1 m
82764	3.0 mm	1 m x 1 m
82765	4.0 mm	1 m x 1 m
84373	1.5 mm	1.5 m x 1.5 m
84374	2.0 mm	1.5 m x 1.5 m
84375	3.0 mm	1.5 m x 1.5 m
84376	4.0 mm	1.5 m x 1.5 m

## LATTY® graf EFMC.BS

### EXPANDED GRAPHITE GASKET MATERIAL

#### The nuclear version

Fire test API 589.

Approval: PMUC 17-184

Please consult us!



T -200 °C to +600 °C

P 65 MPa (650 bar)

pH 0 - 14

## LATTY® graf EFI

### EXPANDED GRAPHITE SHEETS

#### Expanded Graphite and Stainless Steel

Double layer of 98% pure expanded graphite material bonded and laminated over a ISO 1.4404 stainless steel 50 µ foil. The medium rigidity of **LATTY® graf EFI** permits on site easy gasket cutting and fast installation in inaccessible locations where gasket flexing is necessary.

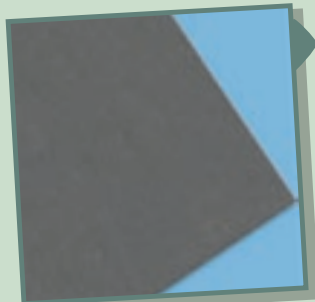
*Pipework flange gaskets, casing cover gaskets for valves, manhole gaskets.*

*All environments (except strong oxidising ones). Chemical and petrochemical industries, energy, all industrial applications in general.*

*Recommendation: prefer LATTY® graf EFA for high Pressure Temperature Rating, and LATTY® graf EFN for chloride environment.*

Approval: DVGW (gas).

Article #	Thickness	Description
05050401	1.0 mm	1 m x 1 m
05050400	1.5 mm	1 m x 1 m
05050402	2.0 mm	1 m x 1 m
05050303	3.0 mm	1 m x 1 m



## LATTY® graf EFN

### EXPANDED GRAPHITE SHEETS

#### Expanded Graphite and Nickel

Double layer of 98% pure expanded graphite material bonded and laminated over a 99.95% pure 13 µ or 25 µ nickel foil.

The medium rigidity of **LATTY® graf EFN** permits on site easy gasket cutting and fast installation in inaccessible locations where gasket flexing is necessary.

*Pipework flange gaskets, casing cover gaskets for valves, manhole gaskets.*

*All environments (except strong oxidising ones). Particularly suited for Chloride environment. Chemical and petrochemical industries, energy, all industrial applications in general.*

*Recommendation: For high Pressure Temperature Rating, prefer LATTY® graf EFA.*

T -200 °C to +600 °C

P 65 MPa (650 bar)

pH 0 - 14

Article #	Thickness	Description
28073	1.0 mm	1 m x 1 m
28074	1.5 mm	1 m x 1 m
49072011	2.0 mm	1 m x 1 m
49073011	3.0 mm	1 m x 1 m



## LATTY® graf E2

### EXPANDED GRAPHITE SHEETS

#### High Purity Expanded Graphite Gasket Material

Compressed sealing rings made of 98% pure expanded graphite without binder.

Good chemical inertia, high thermal conductivity, naturally lubricious.

Density: 1 - Thickness: 0.3 to 4 mm.

*All-purpose product for all industrial applications.*

Approval: DVGW (gas).

T up to +3 000 °C

P 45 MPa (450 bar)

pH 0 - 14

Article #	Thickness	Description
25362	1.5 mm	1 m x 1 m
25363	2.0 mm	1 m x 1 m



T +350 °C

P 10 MPa (100 bar)

## LATTY® pack 960

### BOILER SEALS

#### The Boiler Seal

Moulded, graphite-impregnated gasket consisting of a mix of synthetic fibres coated with expanded graphite yarns reinforced with nickel-chrome.

**LATTY® pack 960** presents a major breakthrough in terms of safety due to its homogeneous structure with regular compactness, good elastic recovery and very low relaxation. Can be used up to 250 °C / 48 bar in appropriate environment with suitable tightening means.

*Industrial boilers, manholes, handholes.*

*Outstanding behaviour with water and steam (no hydrolysis).*

Article #	Dimensions	Description Nbr Gaskets per Blister
47465	100 x 150 x 15 x 6 mm	5
47467	220 x 320 x 25 x 8 mm	2
47468	280 x 380 x 25 x 8 mm	2
47471	300 x 400 x 25 x 8 mm	2
47472	300 x 400 x 30 x 8 mm	2
47473	300 x 400 x 30 x 10 mm	2
47474	300 x 400 x 35 x 8 mm	2
47475	305 x 405 x 25 x 8 mm	2
47476	305 x 405 x 30 x 8 mm	2
47477	320 x 420 x 25 x 8 mm	2





T -200 °C to +600 °C

P &lt; 50 MPa (&lt; 500 bar)

## LATTY®graf REFLEX

HIGH PERFORMANCE GASKETS

### The Ultimate in Sealing Performance

**Patented** composite gasket consisting of a massive **LATTY®graf E** expanded graphite sealing dam, die-formed in place, between stainless steel rings used as compression limiters.

The main feature of this gasket lies into a metal-to-metal contact. During operation, the compression limiter ring protects the **LATTY®graf E**, seal by absorbing all mechanical stresses from the pipework, thermal shocks, etc.

**LATTY®graf REFLEX** is warranted to seal under extreme and variable conditions.

High elastic recovery.

*For all bolted joints: valve bonnets, valve flanges, pump flanges, manholes, etc.*

*Suitable for any application. Proven in the most demanding nuclear and industrial applications.*

Approval: PMUC 17-185.



T -240 °C to +290 °C

P 20 MPa (200 bar)

pH 0 - 14

## LATTY®flon UNISEAL

PTFE UNIVERSAL SELF-ADHESIVE FLAT GASKET MATERIAL

### Universal Continuous Self-Adhesive Flat Gasket Material

100% pure PTFE flat gasket with micro-fibrous structure. Self-adhesive. Resistant to chemicals.

*Flanges, pipes, tank lids, pump and compressor housings, gear covers, fans, blowers, dryers, reactor vessels (including glass). Enamelled, glass, plastic, ceramic surfaces.*

*High tensile strength and good visco-elasticity.*

*Supple gasket: does not deteriorate. May be used on corroded as well as on new surfaces.*

*Suitable for use in contact with foodstuffs and pharmaceuticals.*

Approval: BAM (oxygen), DVGW (gas), TÜV (TA-Luft).

Article #	□	Description
49040011	3.0 x 1.5 mm	15 m
49040018	5.0 x 2.0 mm	20 m
49040010	7.0 x 2.5 mm	20 m
49040012	10.00 x 3.0 mm	12 m
49040013	14.00 x 5.0 mm	15 m
49040023	17.00 x 6.0 mm	10 m
49040014	20.00 x 7.0 mm	8 m
50446	28.00 x 5.0 mm	10 m
72476	40.00 x 5.0 mm	10 m



## Tools

MAINTENANCE

### Gasket Cutters

• Machine for cutting out circular joints and gaskets. All materials up to approximately 8 mm thick. Manual or electric driven. Its design enables to cut easily and rapidly without prior marking of any gasket in a wide range of diameters (80 to 1 250 mm).

• Gasket-cutting kit. Combinations of the large number of punches offer the user a wide range of possible dimensions.

• Box of cutting tools.

Article #		Description
49060012	LI 12	Gasket Cutter
49061222	LI 12M	Motorized gasket Cutter
49060014	LI 14	Replacement Slitter
49060013	LI 13	Box of Cutting Tools



## LATTY®service

MAINTENANCE

### Maintenance Products for the Industry

Aerosols (propellant: CO2) or cartridge.

DL 101	Reducer F6	Anti-seize lubricant
CF 103	Transmeca HT 260	Transmission chain lubricant
GC 104	ISO 3790	Open gear lubricant
GF 105	GALVA +	Cold galvanising agent
HD 107	Textisol	Detergent oil
SL 108	Silicone 800	Silicon lubricant
HC 110	Starcoup MM	Cutting oil
PN 111	TE 213 A	Electrical contact cleaner
GT 112	Alco 280	PTFE lubricant
FE 115	VG 262	PTFE lubricating film

Article #	Description
40040201	12 Sprays of 400 ml
40040203	12 Sprays of 400 ml
40040204	12 Sprays of 400 ml
40040205	12 Sprays of 400 ml
40040207	12 Sprays of 400 ml
40040208	12 Sprays of 400 ml
40040210	12 Sprays of 400 ml
40040211	12 Sprays of 400 ml
40047112	12 cartridges of 430 ml
40040215	12 Sprays of 400 ml



LATTY® Live Loading System

## LATTY®LLS

MAINTENANCE

**LATTY® Live Loading System** is a prelocked energy device for the application of designed load to be transmitted by the gland follower to a stuffing box packing system.

*Can be used on valves, slow rotating equipment and flanges, eradicating the need for any measurement tools to accurately apply a designed load.*

*Sealing efficiency resulting in increased reliability gives the longest possible emission-free and attention-free service life for the equipment. «Fit e Forget»*