



Mechanical Seals

MATERIAL MATCHING TABLE according to NF EN 12756/DIN 24960

Material for friction surfaces - Rotary part / stationary part

Descriptions	LI Code	NF EN 12756/ DIN 24960 Code
Carbons		
Metal impregnated carbon	A	A
Resin impregnated carbon	B	B
Carbon graphite synthetic resin impregnation	B1	B
Other carbons	--	C
Carbides (tungsten carbide U, silicon carbide Q other carbides J)		
Tungsten carbide, Ni binder	U2	U2
Tungsten carbide, CrNiMo binder	--	U3
Pure silicon carbide	U6	Q1
Silicon carbide - silica free	U3	Q2
Silicon carbide and silicon carbon compound	U5	Q3
Carbon and silicon carbide compound, silicon on surface	U9	Q4
Other carbides	--	J
Metallic oxides		
Aluminium oxide	V	V
Chromium oxide	W	W
Other metallic oxides	--	X
Metals		
Carbon-steel	D	D
Cr-steel (ferritic / martensitic steel)	E	E
CrNi-steel (austenitic steel)	F	F
CrNiMo-steel (austenitic steel)	G	G
Metals with carbide coating	--	H
Hard metal coating	--	K
Alloy with high nickel content	M	M
Bronze	N	N
Special Cast Cr No-steel	S2	--
Grey cast iron	--	P
Alloy grey cast iron	--	R
Cr hardened cast steel	--	S
Other metals	T	T
Plastic materials (PTFE, reinforced Y, other plastic materials Z)		
PTFE, with fiberglass reinforcement	Y1	Y1
PTFE, with carbon reinforcement	Y4	Y2
Other plastic materials	Z	Z
Sheet gasket LATTY®flon 94 L	--	--

Material used for flexible parts

Descriptions	LI Code	NF EN 12756/ DIN 24960 Code
Elastomers, uncoated		
Butyl rubber	B	B
Ethylene-propylene rubber	E	E
Perfluorinated rubber	K / K2	K
Chloroprene rubber	--	N
Nitrile rubber	P	P
Silicone rubber	S	S
Fluoro rubber (FPM)	V	V
Other elastomers	--	X
Elastomers, coated		
Elastomers, coated with FEP	M6 / M5	M
Non-elastomer materials		
Graphite	--	G
PTFE	Y	T
Other non-elastomer materials	--	Y
Miscellaneous materials		
Miscellaneous materials for flexible parts	--	U

Materials used in other parts such as springs, metal bellows (except mechanical seal flanges and sleeves)

Descriptions	LI Code	NF EN 12756/ DIN 24960 Code
Carbon steel	D	D
Cr-steel	E	E
CrNi-steel	F	F
CrNiMo-steel	G	G
Alloy with high nickel content	M	M
Copper-tin alloy (bronze)	N	N
Other materials	T	T
Springs of hastelloy	C4	T2



Range names

CARTseal® B 14

Single cartridge seals

The range of single cartridge mechanical seals **CARTseal®** by **LATTY®** is available according to the diameters and types with moulded or machined clamps:



Moulded flanges **CARTseal® B 146**

Shaft ø
25 to 70 mm
1" to 2.750"

B 14610 - B 14610 Q

B 14610 PP - B 14610 PPQ



Machined clamps **CARTseal® B 148**

Shaft ø
≥ to 75 mm
≥ to 2.875"

B 14810 - B 14810 Q

B 14810 PP - B 14810 PPQ

Double cartridge seals

The **CARTseal®** by **LATTY®** range of double cartridge mechanical seals is available with machined clamps: range **B 148**.

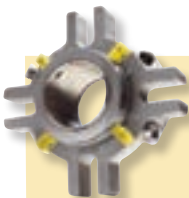


Machined clamps **CARTseal® B 148**

Shaft ø
25 to 100 mm
1" to 4"

B 14810 DB

B 14810 DBVP



CARTseal® B 236

Single Cartridge Version
of the **LATTY®seal B 23** pentagonal drive,
protected spring, mechanical seal.

Moulded flanges >>> B 23612 - B 23612 Q

ATEX

Certain mechanical seals **CARTseal®** comply with the essential requirement of the **Directive ATEX 94 / 9 / CE**:
GROUP II 2 and 3 GD cbk T6 to T3

- Group II : equipment used on the surface
2 et 3 : category* of equipment that may be used in
G : gaseous atmosphere
D : dust atmosphere
c : protection by means of a construction
b : protection by checking the inflammation source
k : protection by means of an immersion (barrier fluid)
T6 to T3 : temperature classes*

* For any other classes or categories, please contact us.





T -20 °C to +220 °C	P 2.5 MPa (25 bar)
S 20 m/s	

Chemical and petrochemical industries, water distribution and sewage, food processing industry, boiler plants, paper mills, etc.

All corrosive, abrasive and slightly clogging fluids.



T -20 °C to +220 °C	P 2.5 MPa (25 bar)
S 20 m/s	

Chemical and petrochemical industries, water distribution and sewage, food processing industry, boiler plants, paper mills, etc.

All corrosive, abrasive and slightly clogging fluids.



CARTseal® B 14610

SINGLE CARTRIDGE SEALS

Revolutionary, **CARTseal® B 14610** leaves the competition behind with a mix of concepts linking ingenuity and technology. Primarily, **CARTseal® B 14610** is designed for the end user as testifies its exceptional modularity allowing full compliance with all types of environments and a reduced operating cost.

Secondly, **CARTseal® B 14610** is a paramount of technology targeted at performance, ease of use and safety: the patented drive system, unique working length, self-turning setting clamps partially illustrate this affirmation. **CARTseal® B 14610** is up to **NF EN 12756/DIN 24960**.

U6B1V Metric		U6U6V Metric		U6B1V Imperial		U6U6V Imperial	
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
78941	025	78959	025	79113	1.000	79128	1.000
78942	028	78960	028	79114	1.125	79129	1.125
78943	030	78961	030	79115	1.250	79130	1.250
78944	032	78962	032	79116	1.375	79131	1.375
78945	033	78963	033	79117	1.500	79132	1.500
78946	035	78964	035	79118	1.625	79133	1.625
78948	038	78965	038	79119	1.750	79134	1.750
78949	040	78966	040	79120	1.875	79135	1.875
78950	043	78967	043	79121	2.000	79136	2.000
78951	045	78968	045	79122	2.125	79137	2.125
78952	048	78969	048	79123	2.250	79138	2.250
78953	050	78970	050	79124	2.375	79139	2.375
78954	053	78971	053	79125	2.500	79140	2.500
78955	055	78972	055	79126	2.625	79141	2.625
78956	060	78973	060	79127	2.750	79142	2.750
78957	065	78974	065				
78958	070	78975	070				

Manufactured upon request only. Please consult us.

CARTseal® B 14810

SINGLE CARTRIDGE SEALS

U6B1V Metric		U6U6V Metric		U6B1V Imperial		U6U6V Imperial	
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
46180	075	46186	075	46204	2.875	46213	2.875
46181	080	46187	080	46205	3.000	46214	3.000
46182	085	46188	085	46206	3.125	46215	3.125
46183	090	46189	090	46207	3.250	46216	3.250
46184	095	46190	095	46208	3.375	46217	3.375
46185	100	46191	100	46209	3.500	46218	3.500
				46210	3.625	46219	3.625
				46211	3.750	46220	3.750
				46212	4.000	46221	4.000

Manufactured upon request only. Please consult us.

Moulded Flanges range names B 146 - Shaft diameters equal to or less than 70 mm Machined clamps range names B 148 - Shaft diameters equal to or greater than 75 mm

The systematic use of silicium carbide U6 significantly improves the chemical resistance of friction faces.

CARTseal® B 14610 Q

SINGLE CARTRIDGE SEALS

Upper version of **CARTseal® B 14610**, this model includes an auxiliary seal used as a quench feature. Its unique fibrous material makes it water absorbent, thus capable of supporting some water shortage.

Thanks to its quench device, **CARTseal® B 14610 Q** increases seal life expectancy on crystallizing, solidifying or vaporizing products.

U6B1V + Quench Metric		U6U6V + Quench Metric		U6B1V + Quench Imperial		U6U6V + Quench Imperial	
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
78982	025	78999	025	79144	1.000	79159	1.000
78983	028	79000	028	79145	1.125	79160	1.125
78984	030	79001	030	79146	1.250	79161	1.250
78985	032	79002	032	79147	1.375	79162	1.375
78986	033	79003	033	79148	1.500	79163	1.500
78987	035	79004	035	79149	1.625	79164	1.625
78988	038	79005	038	79150	1.750	79165	1.750
78989	040	79006	040	79151	1.875	79166	1.875
78990	043	79007	043	79152	2.000	79167	2.000
78991	045	79008	045	79153	2.125	79168	2.125
78992	048	79009	048	79154	2.250	79169	2.250
78993	050	79010	050	79155	2.375	79170	2.375
78994	053	79011	053	79156	2.500	79171	2.500
78995	055	79013	055	79157	2.625	79172	2.625
78996	060	79014	060	79158	2.750	79173	2.750
78997	065	79015	065				
78998	070	79016	070				

Manufactured upon request only. Please consult us.

CARTseal® B 14810 Q

SINGLE CARTRIDGE SEALS

U6B1V + Quench Metric		U6U6V + Quench Metric		U6B1V + Quench Imperial		U6U6V + Quench Imperial	
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
46192	075	46198	075	46222	2.875	46231	2.875
46193	080	46199	080	46223	3.000	46232	3.000
46194	085	46200	085	46224	3.125	46233	3.125
46195	090	46201	090	46225	3.250	46234	3.250
46196	095	46202	095	46240	3.375	46235	3.375
46197	100	46203	100	46227	3.500	46236	3.500
				46228	3.625	46237	3.625
				46229	3.750	46238	3.750
				46230	4.000	46239	4.000

Manufactured upon request only. Please consult us.

Cartridges



T -20 °C to +220 °C P 2.5 MPa (25 bar)

S 20 m/s

Chemical and petrochemical industries, water distribution and sewage, food processing industry, boiler plants and paper mills.

All corrosive, slightly abrasive and clogging fluids.



T -20 °C to +220 °C P 2.5 MPa (25 bar)

S 20 m/s

Chemical and petrochemical industries, water distribution and sewage, food processing industry, boiler plants and paper mills.

All corrosive, slightly abrasive and clogging fluids.



CARTseal® B 14610 PP

SINGLE CARTRIDGE SEALS

Designed specially for applications where flush circulation is useless or prohibited, **CARTseal® B 14610 PP** offers all the internal proven benefits of **CARTseal® B 14610** on a thinner flange configuration targeted at cost reduction.

U6B1V Metric		U6U6V Metric		U6B1V Imperial		U6U6V Imperial	
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
79672	025	79690	025	79741	1.000	79756	1.000
79673	028	79691	028	79743	1.125	79757	1.125
79675	030	79692	030	79742	1.250	79758	1.250
79676	032	79693	032	79744	1.375	79759	1.375
79677	033	79694	033	79745	1.500	79760	1.500
79678	035	79695	035	79746	1.625	79761	1.625
79679	038	79696	038	79747	1.750	79762	1.750
79680	040	79697	040	79748	1.875	79763	1.875
79681	043	79698	043	79749	2.000	79764	2.000
79682	045	79699	045	79750	2.125	79765	2.125
79683	048	79700	048	79751	2.250	79766	2.250
79684	050	79701	050	79752	2.375	79767	2.375
79685	053	79702	053	79753	2.500	79768	2.500
79686	055	79703	055	79754	2.625	79769	2.625
79687	060	79704	060	79755	2.750	79770	2.750
79688	065	79705	065				
79689	070	79706	070				

Manufactured upon request only. Please consult us.

CARTseal® B 14810 PP

SINGLE CARTRIDGE SEALS

U6B1V Metric		U6U6V Metric		U6B1V Imperial		U6U6V Imperial	
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
47608	075	48640	075	60181	2.875	60209	2.875
60163	080	53994	080	60182	3.000	60210	3.000
59761	085	60190	085	60183	3.125	60211	3.125
58532	090	60191	090	60184	3.250	60212	3.250
60164	095	60192	095	60185	3.375	60213	3.375
60165	100	60193	100	60186	3.500	60214	3.500
				60187	3.625	60215	3.625
				60188	3.750	60216	3.750
				60189	4.000	60217	4.000

Manufactured upon request only. Please consult us.

Moulded Flanges range names B 146 - Shaft diameters equal to or less than 70 mm Machined clamps range names B 148 - Shaft diameters equal to or greater than 75 mm

The systematic use of silicium carbide U6 significantly improves the chemical resistance of friction faces.

CARTseal® B 14610 PPQ

SINGLE CARTRIDGE SEALS

Designed specially for applications where flush circulation is useless or prohibited, **CARTseal® B 14610 PPQ** offers all the internal proven benefits of **CARTseal® B 14610 Q** on a thinner flange configuration. Absence of medium crystallization underneath the faces, heating or cooling of the seal are now effectively realized.

U6B1V + Quench Metric		U6U6V + Quench Metric		U6B1V + Quench Imperial		U6U6V + Quench Imperial	
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
79707	025	79724	025	79771	1.000	79787	1.000
79708	028	79725	028	79772	1.125	79788	1.125
79709	030	79726	030	79773	1.250	79789	1.250
79710	032	79727	032	79774	1.375	79790	1.375
79711	033	79728	033	79775	1.500	79791	1.500
79712	035	79729	035	79776	1.625	79792	1.625
79713	038	79730	038	79777	1.750	79793	1.750
79714	040	79731	040	79778	1.875	79794	1.875
79715	043	79732	043	79779	2.000	79795	2.000
79716	045	79733	045	79780	2.125	79796	2.125
79717	048	79734	048	79781	2.250	79797	2.250
79718	050	79735	050	79782	2.375	79798	2.375
79719	053	79736	053	79783	2.500	79799	2.500
79720	055	79737	055	79784	2.625	79800	2.625
79721	060	79738	060	79786	2.750	79801	2.750
79722	065	79739	065				
79723	070	79740	070				

Manufactured upon request only. Please consult us.

CARTseal® B 14810 PPQ

SINGLE CARTRIDGE SEALS

U6B1V + Quench Metric		U6U6V + Quench Metric		U6B1V + Quench Imperial		U6U6V + Quench Imperial	
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
58496	075	60223	075	60241	2.875	60266	2.875
60218	080	58391	080	60242	3.000	60267	3.000
60219	085	60224	085	60243	3.125	60268	3.125
60220	090	60225	090	60244	3.250	60269	3.250
60221	095	59399	095	60245	3.375	60270	3.375
60222	100	54682	100	60246	3.500	60271	3.500
				60247	3.625	60272	3.625
				60248	3.750	60273	3.750
				60249	4.000	60274	4.000

Manufactured upon request only. Please consult us.

The maximum temperature, pressure and speed given in this document cannot be associated in any case.



CARTseal® B 14810 DB

DOUBLE CARTRIDGE SEALS

CARTseal® B 14810 DB is today the ultimately sophisticated version of **CARTseal® B 14810**. Capable of operating as a pressureless tandem seal or as a pressured double seal, **CARTseal® B 14810 DB** guarantees, by inventory shrinkage, a TCO reduction, while maximum sealing flexibility and reliability are given by **one** product that fits many applications.

T -20 °C to +220 °C P 2.5 MPa (25 bar)
S 20 m/s

Chemical and petrochemical,
automotive, food processing
industry, etc.

All corrosive, abrasive
and slightly clogging fluids.

U6U6V + U6B1V <i>Metric</i>	
Article #	Ø
35783	025
35784	028
35785	030
35786	032
35787	033
35788	035
35789	038
35790	040
35791	043
59417	045
35793	048
35794	050
35795	055
35796	060
35797	065
59411	070
59243	075
60117	080
60118	085
60119	090
60120	095
60121	100

U6U6V + U6U6V <i>Metric</i>	
Article #	Ø
35751	025
35752	028
37753	030
35754	032
35755	033
35756	035
35757	038
35758	040
35759	043
59418	045
35761	048
35762	050
35763	055
35764	060
35765	065
35766	070
60111	075
60112	080
60113	085
60114	090
60115	095
60116	100

U6B1V + U6B1V <i>Imperial</i>	
Article #	Ø
35799	1.000
35800	1.125
35801	1.250
35802	1.375
60515	1.500
35804	1.625
35805	1.750
35806	1.875
35807	2.000
35808	2.125
35809	2.250
35810	2.375
35811	2.500
35812	2.625
35813	2.750
60301	2.875
60302	3.000
60303	3.125
60304	3.250
60305	3.375
60306	3.500
60307	3.625
60308	3.750
60309	4.000

U6U3V + U6U6V <i>Imperial</i>	
Article #	Ø
35767	1.000
35768	1.125
35769	1.250
35770	1.375
35771	1.500
35772	1.625
35773	1.750
35774	1.875
35775	2.000
35776	2.125
35777	2.250
35778	2.375
35779	2.500
35780	2.625
35781	2.750
60288	2.875
60289	3.000
60290	3.125
60295	3.250
60296	3.375
60297	3.500
60298	3.625
60299	3.750
60300	4.000

Manufactured upon request only. Please consult us.



CARTseal® B 14810 DBSA

DOUBLE CARTRIDGE SEALS

The GM **CARTseal® B 14810 DBSA** is a variant of our dual versions designed for applications in extremely harsh and corrosive environments. The “wet” parts of the seal are made of exotic materials or with optional coatings. The operating characteristics are identical to those of the standard versions.

T -20 °C to +220 °C P 2.5 MPa (25 bar) S 20 m/s

«Can be supplied
ATEX 
with approval»

CARTseal® B 14810 DBVP

DOUBLE CARTRIDGE SEALS

CARTseal® B 14810 DBVP can operate either as a pressurized double mechanical seal or as a tandem mechanical seal without barrier pressure. **CARTseal® B 14810 DBVP** is equipped with a pumping screw (VP) which efficiently circulates the barrier fluid without requiring a costly and time-consuming installation of a motorized-pump.

All the features and benefits in connection with **B 14610** and **B 14810 DB** versions also apply to the **B 14810 DBVP**.

T -20 °C to +220 °C P 2.5 MPa (25 bar) S 20 m/s



SPARE KITS CARTRIDGE

Sets of spare parts packed in **KIT** form adapted to different mechanical seals cartridge type **B 14** may be provided.

Please contact us!

ACCESSORIES

LATTE® international provides all servo-controls, thermo-syphon and lubrication units as required, specially suited to the operation of mechanical seals.

The **lubrication modules (Groupes De Lubrification - GDL)** simultaneously maintain the pressure in the seal boxes and also carry out barrier fluid temperature

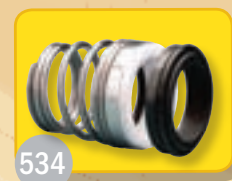
control. They can be used for all models of seals and types of fitting (for example, double, tandem, etc.).

Stainless steel thermosiphons ensure the circulation of the barrier fluids through the boxes and other series of **LATTY®** mechanical seals.



**Chemical industry,
sewage treatment
and water conditioning,
food industry.**

Any slightly corrosive, abrasive and non-clogging fluid.



Ingeniously designed around an elastomer bellows acting as a seat for the face and secondary sealing element, **ECOLINE's** small dimensions make it suitable for any equipment.

ECOLINE is fitted with different types of stationary fits which makes it suitable for installation on a wide range of equipment.

The independence from the direction of rotation is a stock reduction factor.

Standard *and derived* series



T -20 °C to +180 °C P 1 MPa (10 bar)

S 10 m/s

LATTY®sea/ U 1000

COMPLETE UNBALANCED MECHANICAL SEALS

Streamlined to an extreme, **LATY®seal U 1000** is the mechanical seal of choice for a wide variety of **NF EN 12756/ DIN 24960** equipment. Ruggedness and simplicity are all factors of longevity and installation ease.

Its conical spring concept makes it dependent on direction of rotation.

Chemical, food processing and bio-engineering industries, water circulation applications.

All corrosive, abrasive and slightly clogging fluids.

R G2BV						R S2BV			
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
70010200	018	70013145	030	70014431	043	40195	053	60017111	070
70011175	020	70013247	032	70015458	045	60015113	055	31296	075
60011176	022	45823	033	40572	048	60016062	060	60017032	080
70011174	024	70014419	035	70015329	050	60016082	065		
70012165	025	70014430	038						
70012122	028	70014287	040						



T -20 °C to +180 °C P 1 MPa (10 bar)

S 10 m/s

LATTY®sea/ U 1110

COMPLETE UNBALANCED MECHANICAL SEALS

Conceptually similar to **LATTY®seal/ U 1000** but fitted with a carbon face, **LATTY®seal/ U 1110** fulfills a wide spectrum of applications on commonly used **NF EN 12756/DIN 24960** equipment. Its conical spring concept makes it dependent on direction of rotation.

Chemical, food processing and bio-engineering industries, water circulation applications.

All corrosive, non-abrasive and non-clogging fluids.

R BU3V											
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
85370	014	78483	024	84150	033	72199	045	85397	060	85401	080
65119	016	65320	025	66408	035	85395	048	85398	063		
52179	018	62703	028	42604	038	84166	050	85399	065		
85391	020	63258	030	68275	040	85396	053	85400	070		
85392	022	85393	032	85394	043	60075446	055	71886	075		



R BS2V									
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
59390	014	61435	024	85383	033	85384	045	85387	060
85382	016	71902	025	64948	035	85385	048	85388	063
68097	018	24376	028	74769	038	67351	050	32864	065
62519	020	60073	030	67171	040	85386	053	69658	070
60071012	022	61436	032	79405	043	78383	055	30687	075
85389	080								

R BW									
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
85369	014	81628	024	85374	033	60075046	045	85377	060
64017	016	60072021	025	49588	035	60075012	048	85378	063
85371	018	53110	028	60074037	038	60075044	050	85814	065
85372	020	21997	030	60074038	040	85376	053	85379	070
85373	022	60073007	032	85375	043	66142	055	85380	075
85381	080								



T -20 °C to +180 °C P 1 MPa (10 bar)

S 10 m/s

LATTY®seal/ U 1212 COMPLETE UNBALANCED MECHANICAL SEALS

Conceptually similar to **LATTY®seal U 1000** but fitted with silicon carbide faces, **LATTY®seal U 1212** is particularly suitable for the pumping of light slurry fluids onwidelly used **NF EN 12756/DIN 24960** pumps. Its conical spring concept makes it dependent on direction of rotation.

Chemical, food processing and bio-engineering industries, waste water and sewageapplications.

All slightly corrosive, abrasive and non-clogging fluids.

R U3U3V									
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
34989	018	35036	025	35040	033	38260	043	21345	053
34895	020	35037	028	35041	035	35044	045	35046	055
41069	022	35038	030	35042	038	55385	048	38261	060
36691	024	35039	032	35043	040	35045	050	21346	065
53490	070							60227343	080
55558	075								



T -20 °C to +220 °C P 1 MPa (10 bar)

S 15 m/s

LATTY®seal/ U 6810 COMPLETE UNBALANCED MECHANICAL SEALS

Targeted at the immense field of process pumps built to **NF EN 12756/DIN 24960**, **LATTY®seal U 6810** offers an instantaneous interchangeability of the rotating face permitting multiple use and cost reduction.

Wide spectrum of rotating and stationary faces.

Chemical and petrochemical, food processing and bio-engineering industries, feed water applications, etc.

All corrosive, abrasive and slightly clogging fluids.

BU3V					
Article #	Ø	Article #	Ø	Article #	Ø
55598	018	54158	035	55611	060
55599	020	55607	038	55612	063
55600	022	54157	040	55613	065
55601	024	55608	043	55614	070
55602	025	52459	045	55615	075
55603	028	55609	048	55616	080
55604	030	54156	050	55617	085
55605	032	55610	053	55618	090
55606	033	54155	055		

BS2V					
Article #	Ø	Article #	Ø	Article #	Ø
55559	018	55568	035	55575	060
55560	020	43661	038	55576	063
56984	022	55569	040	55577	065
55562	024	55570	043	55578	070
55563	025	55571	045	55579	075
55564	028	55572	048	55580	080
55565	030	55573	050	37882	085
55566	032	55574	053	55581	090
55567	033	51607	055		

U3U3V					
Article #	Ø	Article #	Ø	Article #	Ø
51670	018	47007	035	43287	060
50149	020	50156	038	33158	063
50151	022	50157	040	55176	065
50150	024	50158	043	55622	070
50152	025	50159	045	49267	075
19821	028	55619	048	55623	080
50153	030	33080	050	55624	085
50154	032	55620	053	55625	090
50155	033	55621	055		

BW					
Article #	Ø	Article #	Ø	Article #	Ø
55582	018	52457	035	43284	060
51500	020	55588	038	55595	063
55583	022	55589	040	47008	065
55584	024	55590	043	43285	070
52458	025	55591	045	53053	075
55585	028	55592	048	43286	080
55586	030	43283	050	55596	085
52639	032	55593	053	55597	090
55587	033	55594	055		



T -20 °C to +220 °C P 2.5 MPa (25 bar)

S 15 m/s

LATTY®seal/ B 6810 COMPLETE BALANCED MECHANICAL SEALS

Aimed at high-pressure process pumps, built to **NF EN 12756/DIN 24960**, **LATTY®seal B 6810** is the compensated version of the **U6810**.

Chemical and petrochemical, food processing and bio-engineering industries, feed water applications, etc.

All corrosive, abrasive and slightly clogging fluids.

AU3V							
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
85555	030	85556	038	85558	048	85563	060
72938	032	73555	040	85561	050		
72938	033	71213	043	85562	053		
64281	035	66814	045	84646	055		

Manufactured upon request only. Please consult us.

Standard and derived series



T -20 °C to + 160 °C P 2.5 MPa (25 bar)
S 20 m/s

LATTY®seal/ B 23110

COMPLETE BALANCED MECHANICAL SEALS

Standard balanced mechanical seal with a single spring washer and pentagonal drive.
The areas of applications are huge due to the protection design for the spring washer: pumps conveying slurries for the sugar industry, paper industry, extracting industry, for heavy industries, all simple assemblies possible (cartridge, tandem, quench, etc.).

BS2V Metric					
Article #	Ø	Article #	Ø	Article #	Ø
71286	018	71296	038	71306	063
71287	020	71297	040	71307	065
71288	022	71298	043	71308	070
71289	024	71299	045	71309	075
71290	025	71300	048	71310	080
71291	028	71301	050	71311	085
71292	030	71302	053	71312	090
71293	032	71303	055	71313	095
71294	033	71304	058	71314	100
71295	035	71305	060		

BU3V Metric					
Article #	Ø	Article #	Ø	Article #	Ø
71400	018	71410	038	71419	063
71401	020	71411	040	71420	065
71402	022	71412	043	71421	070
71403	024	70934	045	71422	075
71404	025	71413	048	71423	080
71405	028	71414	050	71424	085
71406	030	71415	053	71425	090
71407	032	71416	055	71426	095
71408	033	71417	058	71427	100
71409	035	71418	060		

BW Metric					
Article #	Ø	Article #	Ø	Article #	Ø
71343	018	71353	038	71362	063
71344	020	71354	040	71363	065
71345	022	71355	043	71364	070
71346	024	71356	045	71366	075
71347	025	71248	048	71367	080
71348	028	71357	050	71368	085
71349	030	71358	053	71369	090
71350	032	71359	055	71370	095
71351	033	71360	058	71371	100
71352	035	71361	060		

BS2V Imperial					
Article #	Ø	Article #	Ø	Article #	Ø
71315	0.750	71326	2.000	71336	3.250
71316	0.875	71327	2.125	71337	3.375
71318	1.000	71328	2.250	71338	3.500
71319	1.125	71329	2.375	71339	3.625
71320	1.250	71330	2.500	71340	3.750
71321	1.375	71331	2.625	71341	3.875
71322	1.500	71332	2.750	71342	4.000
71323	1.625	71333	2.875		
71324	1.750	71334	3.000		
71325	1.875	71335	3.125		

BU3V Imperial					
Article #	Ø	Article #	Ø	Article #	Ø
71428	0.750	71439	2.000	71449	3.250
71634	0.875	71440	2.125	71450	3.375
71431	1.000	71441	2.250	71451	3.500
71432	1.125	71442	2.375	71452	3.625
71433	1.250	71443	2.500	71453	3.750
71434	1.375	71444	2.625	71454	3.875
71435	1.500	71445	2.750	71455	4.000
71436	1.625	71446	2.875		
71437	1.750	71447	3.000		
71438	1.875	71448	3.125		

BW Imperial					
Article #	Ø	Article #	Ø	Article #	Ø
71373	0.750	71383	2.000	71393	3.250
71374	0.875	71384	2.125	71394	3.375
71375	1.000	71385	2.250	71395	3.500
71376	1.125	71386	2.375	71396	3.625
71377	1.250	71387	2.500	71397	3.750
71378	1.375	71388	2.625	71398	3.875
71379	1.500	71389	2.750	71399	4.000
71380	1.625	71390	2.875		
71381	1.750	71391	3.000		
71382	1.875	71392	3.125		

Manufactured upon request only. Please consult us.



T -20 °C to + 160 °C P 2.5 MPa (25 bar)
S 20 m/s

LATTY®seal/ B 23210

COMPLETE BALANCED MECHANICAL SEALS

Standard balanced mechanical seal with a single spring washer and pentagonal drive.
The areas of applications are huge due to the protection design for the spring washer: pumps conveying slurries for the sugar industry, paper industry, extracting industry, for heavy industries, all simple assemblies possible (cartridge, tandem, quench, etc.).

U3U3V Metric					
Article #	Ø	Article #	Ø	Article #	Ø
71456	018	71466	038	71476	063
71457	020	71467	040	71477	065
71458	022	71468	043	71478	070
71459	024	71469	045	71479	075
71460	025	71470	048	71480	080
71461	028	71471	050	71481	085
71462	030	71472	053	71482	090
71463	032	71473	055	71483	095
71464	033	71474	058	71484	100
71465	035	71475	060		

U3U3V Imperial					
Article #	Ø	Article #	Ø	Article #	Ø
71486	0.750	71497	2.000	71507	3.250
71487	0.875	71498	2.125	71508	3.375
71488	1.000	71499	2.250	71509	3.500
71489	1.125	71500	2.375	71510	3.625
71490	1.250	71501	2.500	71511	3.750
71491	1.375	71502	2.625	71512	3.875
71492	1.500	71503	2.750	71513	4.000
71494	1.625	71504	2.875		
71495	1.750	71505	3.000		
71496	1.875	71506	3.125		

Manufactured upon request only. Please consult us.



T -20 °C to +160 °C P 2.5 MPa (25 bar)
S 20 m/s

LATTY®seal/ B 23212

COMPLETE BALANCED MECHANICAL SEALS

Standard balanced mechanical seal with a single spring washer and pentagonal drive.
The areas of applications are huge due to the protection design for the spring washer:pumps conveying slurries for the sugar industry, paper industry, extracting industry, for heavy industries, all simple assemblies possible (cartridge, tandem, quench, etc.).

U3U3V Metric					
Article #	Ø	Article #	Ø	Article #	Ø
71514	018	71524	038	71534	063
71515	020	71525	040	71535	065
71516	022	71526	043	71536	070
71517	024	71527	045	71537	075
71518	025	71528	048	71538	080
71519	028	71529	050	71539	085
71520	030	71530	053	71540	090
71521	032	71531	055	71541	095
71522	033	71532	058	71214	100
71523	035	71533	060		

U3U3V Imperial					
Article #	Ø	Article #	Ø	Article #	Ø
71544	0.750	71554	2.000	71564	3.250
71545	0.875	71555	2.125	71565	3.375
71546	1.000	71556	2.250	71566	3.500
71547	1.125	71557	2.375	71567	3.625
71548	1.250	71558	2.500	71568	3.750
71549	1.375	71559	2.625	71569	3.875
71550	1.500	71560	2.750	71570	4.000
71551	1.625	71561	2.875		
71552	1.750	71562	3.000		
71553	1.875	71563	3.125		

Manufactured upon request only. Please consult us.



T -20 °C to +160 °C P 2.5 MPa (25 bar)
S 20 m/s

The areas of applications are huge due to the protection design for the spring washer: Pumps conveying slurries for the sugar industry, paper industry, extracting industry, for heavy industries, all simple assemblies possible (cartridge, tandem, quench, etc.).

CARTseal® B 23612

SINGLE CARTRIDGE SEALS

Cartridge version of the LATTY®seal B 23 pentagonal drive, protected spring, mechanical seal.

B U6V Metric					
Article #	Ø	Article #	Ø	Article #	Ø
79019	025	79026	040	79033	058
79020	028	79027	043	79034	060
79021	030	79028	045	79035	063
79022	032	79029	048	79036	065
79023	033	79030	050	79037	068
79024	035	79031	053	79038	070
79025	038	79032	055		

B U6V Imperial					
Article #	Ø	Article #	Ø	Article #	Ø
79179	1.000	79184	1.625	79189	2.250
79180	1.125	79185	1.750	79190	2.375
79181	1.250	79186	1.875	79191	2.500
79182	1.375	79187	2.000	79192	2.625
79183	1.500	79188	2.125	79193	2.750

Manufactured upon request only. Please consult us.

U6U6V Metric					
Article #	Ø	Article #	Ø	Article #	Ø
79039	025	79046	040	79053	058
79040	028	79047	043	79054	060
79041	030	79048	045	79055	063
79042	032	79049	048	79057	065
79043	033	79050	050	79058	068
79044	035	79051	053	79059	070
79045	038	79052	055		

U6U6V Imperial					
Article #	Ø	Article #	Ø	Article #	Ø
79196	1.000	79201	1.625	79206	2.250
79197	1.125	79202	1.750	79207	2.375
79198	1.250	79203	1.875	79208	2.500
79199	1.375	79204	2.000	79209	2.625
79200	1.500	79205	2.125	79210	2.750

Manufactured upon request only. Please consult us.



T -20 °C to +160 °C P 2.5 MPa (25 bar)
S 20 m/s

The areas of applications are huge due to the protection design for the spring washer: Pumps conveying slurries for the sugar industry, paper industry, extracting industry, for heavy industries, all simple assemblies possible (cartridge, tandem, quench, etc.).

CARTseal® B 23612 Q

SINGLE CARTRIDGE SEALS

Cartridge version of the LATTY®seal B 23 pentagonal drive, protected spring, mechanical seal.

With its quench CARTseal® B 23610 Q improves the life time of the mechanical seal used with crystallising, solidifying or vapouring products.

B U6V Metric					
Article #	Ø	Article #	Ø	Article #	Ø
79067	025	79074	040	79081	058
79068	028	79075	043	79082	060
79069	030	79076	045	79083	063
79070	032	79077	048	79084	065
79071	033	79078	050	79085	068
79072	035	79079	053	79086	070
79073	038	79080	055		

B U6V Imperial					
Article #	Ø	Article #	Ø	Article #	Ø
79211	1.000	79216	1.625	79221	2.250
79212	1.125	79217	1.750	79222	2.375
79213	1.250	79218	1.875	79223	2.500
79214	1.375	79219	2.000	79224	2.625
79215	1.500	79220	2.125	79225	2.750

Manufactured upon request only. Please consult us.

U6U6V Metric					
Article #	Ø	Article #	Ø	Article #	Ø
79088	025	79095	040	79102	058
79089	028	79096	043	79103	060
79090	030	79097	045	79104	063
79091	032	79098	048	79105	065
79092	033	79099	050	79106	068
79093	035	79100	053	79107	070
79094	038	79101	055		

U6U6V Imperial					
Article #	Ø	Article #	Ø	Article #	Ø
79228	1.000	79233	1.625	79238	2.250
79229	1.125	79234	1.750	79239	2.375
79230	1.250	79235	1.875	79240	2.500
79231	1.375	79236	2.000	79241	2.625
79232	1.500	79237	2.125	79242	2.750

Manufactured upon request only. Please consult us.



LATTY®seal/ B 10712

COMPLETE BALANCED MECHANICAL SEALS

Solely designed for the sealing of highly abrasive or viscous media, LATTY®seal B 10712 is the forging seal that heavy industry requires in terms of endurance and reliability. Its ability to receive abuses is unsurpassed.

Pulp and paper mills, sugar, waste water applications.

All corrosive, abrasive and highly clogging fluids.

T -20 °C to +180 °C P 1 MPa (10 bar) S 10 m/s



T -20 °C to +220 °C P 1 MPa (10 bar)
S 15 m/s

LATTY®seal/ B 16670

COMPLETE BALANCED MECHANICAL SEALS

Since no metal part is in contact with the media, the externally mounted LATTY®seal B 16670 withstands highly corrosive media. Due to a lateral tightening screw and an engraved reference line, installation is quick and simple.

Chemical, food industry, reactors applications.

All highly corrosive, abrasive and slightly clogging fluids.

A3 U6U6V									
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
85278	025	81641	033	85284	043	85287	053	85292	063
85279	028	74873	035	81947	045	85288	055	85293	065
85280	030	85282	038	85285	048	85289	058	85294	070
85281	032	85283	040	85286	050	85290	060		

Manufactured upon request only. Please consult us.

Standard and derived series



A3 BU6V									
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
85261	025	85265	033	85239	043	74260	053	85275	063
85262	028	85266	035	85270	045	85273	055	85276	065
85263	030	85267	038	85271	048	85274	058	85277	070
85264	032	85268	040	85272	050	74259	060		

A3 BVV									
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
85243	025	85247	033	85251	043	85255	053	82258	063
85244	028	85248	035	85252	045	85256	055	82259	065
85245	030	85249	038	85253	048	85257	058	85260	070
85246	032	85250	040	85254	050	56795	060		

Manufactured upon request only. Please consult us.



T -20 °C to +220 °C P 2 MPa (20 bar)
S 25 m/s

LATTY®seal B 17110

COMPLETE BALANCED MECHANICAL SEALS

Using a State-of-the-Art welded bellows technology, **LATTY®seal B 17110** provides no hang-up or shaft fretting due to the absence of any semi-dynamic O-rings. The centrifugal force and natural bellows respiration make **LATTY®seal B 17110** a self cleaning seal. High rotation speeds are achievable.

Chemical, petrochemical, pulp and paper applications.

All corrosive, slightly abrasive and clogging fluids.

B AU3V							
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
64421	025	85213	035	81776	048	85221	063
85210	028	82214	038	85218	055	77599	065
85211	030	82215	040	85219	060	85222	070
85212	032	82216	043	67331	050	85223	075
74253	033	82217	045	85220	053	85224	080

Manufactured upon request only. Please consult us.



T -20 °C to +220 °C P 2 MPa (20 bar)
S 25 m/s

LATTY®seal B 17210

COMPLETE BALANCED MECHANICAL SEALS

Using a State-of-the-Art welded bellows technology, **LATTY®seal B 17210** provides no hang-up or shaft fretting due to the absence of any semi-dynamic O-rings. The centrifugal force and natural bellows respiration make **LATTY®seal B 17210** a self cleaning seal. High rotation speeds are achievable.

Chemical, petrochemical, pulp and paper applications.

All corrosive, slightly abrasive and clogging fluids.

B U6U3V							
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
85225	025	64305	035	67727	048	85232	063
70852	028	68693	038	80870	055	76014	065
76027	030	85228	040	85230	060	85233	070
85226	032	85229	043	82098	050	85234	075
85227	033	77664	045	85231	053	69805	080

Manufactured upon request only. Please consult us.



T -20 °C to +180 °C P 2.5 MPa (25 bar)
S 20 m/s

LATTY®seal B 18212

COMPLETE BALANCED MECHANICAL SEALS

LATTY®seal B 18212, designed in compliance with **NF EN 12756/DIN 24960** is suitable for use in severe application cases due to its strength and reliability. The use of an overdimensioned cylindrical spring and the friction faces made of silicium carbide U3 (Q2) or, for the most difficult cases of tungsten carbide with nickel binder U2 (U2), make it a complete balanced mechanical seal that has proven its efficiency within extremely severe atmospheres.

Iron and steel industry, sugar industry, paper industry, treatment of waste water, heavy industry, etc.

Any corrosive, abrasive and clogging fluid.

U3U3V							
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
75306	055	75308	070	75311	085	61808	100
62281	060	75309	075	66966	090		
75307	065	75310	080	63157697	095		

Manufactured upon request only. Please consult us.

All spare parts on simple request – Please contact us!

Modules

Performance materials such as Hastelloy®, titanium, Uranus® for the metal components, perfloride seals (Kalrez®, Parofluor®) or proven contact surfaces used in the construction of our cartridge and box assemblies provide resistance to particularly aggressive and corrosive atmospheres.