

MECHANICAL SEALS



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MATERIAL MATCHING TABLE according to NF EN 12756

Material for friction surfaces - Rotary part / stationary part

Descriptions	LI Code	NF EN 12756 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 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 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®

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:

CARTseal® B 146

Moulded flanges

B 14610 / B 14610 Q

Shaft \varnothing 25 to 70 mm
1" to 2.750"

B 14610 PP / B 14610 PPQ



CARTseal® B 148

Machined clamps

B 14810 / B 14810 Q

Shaft \varnothing \geq to 75 mm
 \geq to 2.875"

B 14810 PP / B 14810 PPQ



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

DOUBLE CARTRIDGE SEALS



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

CARTseal® B 148

Machined clamps

B 14810 DB

Shaft \varnothing 25 à 100 mm
1" to 4"

B 14810 DBVP



Certain mechanical seals **CARTseal®** comply with the essential requirement of the Directive ATEX 94 / 9 / CE:

GROUPE II 2 and 3 GD cbk T6 to T3

- Group II : equipment used on the surface
- 2 and 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.

CART[®]seal B 14610 is a mix of concepts linking ingenuity and technology. **CART[®]seal 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.

In addition, **CART[®]seal B 14610** is a paramount of technology targeted at performance, ease of use and safety: the drive system, unique working length, self-turning setting clamps partially illustrate this affirmation. **CART[®]seal B 14610** is up to **NF EN 12756**.

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

All corrosive, abrasive and slightly clogging fluids.

- Approval: norme NF EN 12756.

CARTseal[®] B 14610

Moulded Flanges range names B 146 - Shaft diameters equal to or less than 70 mm



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

U6B1V Metric		U6U6V Metric	
Article #	Ø	Article #	Ø
78941	025	78959	025
78942	028	78960	028
78943	030	78961	030
78944	032	78962	032
78945	033	78963	033
78946	035	78964	035
78948	038	78965	038
78949	040	78966	040
78950	043	78967	043
78951	045	78968	045
78952	048	78969	048
78953	050	78970	050
78954	053	78971	053
78955	055	78972	055
78956	060	78973	060
78957	065	78974	065
78958	070	78975	070

U6B1V Imperial		U6U6V Imperial	
Article #	Ø	Article #	Ø
79113	1.000	79128	1.000
79114	1.125	79129	1.125
79115	1.250	79130	1.250
79116	1.375	79131	1.375
79117	1.500	79132	1.500
79118	1.625	79133	1.625
79119	1.750	79134	1.750
79120	1.875	79135	1.875
79121	2.000	79136	2.000
79122	2.125	79137	2.125
79123	2.250	79138	2.250
79124	2.375	79139	2.375
79125	2.500	79140	2.500
79126	2.625	79141	2.625
79127	2.750	79142	2.750

Manufactured upon request only. Please consult us

CARTseal[®] B 14810

Machined clamps range names B 148 - Shaft diameters equal to or greater than 75 mm



U6B1V Metric		U6U6V Metric	
Article #	Ø	Article #	Ø
46180	075	46186	075
46181	080	46187	080
46182	085	46188	085
46183	090	46189	090
46184	095	46190	095
46185	100	46191	100

U6B1V Imperial		U6U6V Imperial	
Article #	Ø	Article #	Ø
46204	2.875	46213	2.875
46205	3.000	46214	3.000
46206	3.125	46215	3.125
46207	3.250	46216	3.250
46208	3.375	46217	3.375
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

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.

CARTseal[®] B 14610 Q

Moulded Flanges range names B 146 - Shaft diameters equal to or less than 70 mm



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

U6B1V + Quench Metric		U6U6V + Quench Metric	
Article #	Ø	Article #	Ø
78982	025	78999	025
78983	028	79000	028
78984	030	79001	030
78985	032	79002	032
78986	033	79003	033
78987	035	79004	035
78988	038	79005	038
78989	040	79006	040
78990	043	79007	043
78991	045	79008	045
78992	048	79009	048
78993	050	79010	050
78994	053	79011	053
78995	055	79013	055
78996	060	79014	060
78997	065	79015	065
78998	070	79016	070

U6B1V + Quench Imperial		U6U6V + Quench Imperial	
Article #	Ø	Article #	Ø
79144	1.000	79159	1.000
79145	1.125	79160	1.125
79146	1.250	79161	1.250
79147	1.375	79162	1.375
79148	1.500	79163	1.500
79149	1.625	79164	1.625
79150	1.750	79165	1.750
79151	1.875	79166	1.875
79152	2.000	79167	2.000
79153	2.125	79168	2.125
79154	2.250	79169	2.250
79155	2.375	79170	2.375
79156	2.500	79171	2.500
79157	2.625	79172	2.625
79158	2.750	79173	2.750

Manufactured upon request only. Please consult us

CARTseal[®] B 14810 Q

Machined clamps range names B 148 - Shaft diameters equal to or greater than 75 mm



U6B1V + Quench Metric		U6U6V + Quench Metric	
Article #	Ø	Article #	Ø
46192	075	46198	075
46193	080	46199	080
46194	085	46200	085
46195	090	46201	090
46196	095	46202	095
46197	100	46203	100

U6B1V + Quench Imperial		U6U6V + Quench Imperial	
Article #	Ø	Article #	Ø
46222	2.875	46231	2.875
46223	3.000	46232	3.000
46224	3.125	46233	3.125
46225	3.250	46234	3.250
46240	3.375	46235	3.375
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

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

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.

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

All corrosive, slightly abrasive and clogging fluids.

CART®seal B 14610 PP

Moulded Flanges range names B 146 - Shaft diameters equal to or less than 70 mm



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

U6B1V Metric		U6U6V Metric	
Article #	Ø	Article #	Ø
79672	025	79690	025
79673	028	79691	028
79675	030	79692	030
79676	032	79693	032
79677	033	79694	033
79678	035	79695	035
79679	038	79696	038
79680	040	79697	040
79681	043	79698	043
79682	045	79699	045
79683	048	79700	048
79684	050	79701	050
79685	053	79702	053
79686	055	79703	055
79687	060	79704	060
79688	065	79705	065
79689	070	79706	070

U6B1V Imperial		U6U6V Imperial	
Article #	Ø	Article #	Ø
79741	1.000	79756	1.000
79743	1.125	79757	1.125
79742	1.250	79758	1.250
79744	1.375	79759	1.375
79745	1.500	79760	1.500
79746	1.625	79761	1.625
79747	1.750	79762	1.750
79748	1.875	79763	1.875
79749	2.000	79764	2.000
79750	2.125	79765	2.125
79751	2.250	79766	2.250
79752	2.375	79767	2.375
79753	2.500	79768	2.500
79754	2.625	79769	2.625
79755	2.750	79770	2.750

Manufactured upon request only. Please consult us

CART®seal B 14810 PP

Machined clamps range names B 148 - Shaft diameters equal to or greater than 75 mm



U6B1V Metric		U6U6V Metric	
Article #	Ø	Article #	Ø
47608	075	48640	075
60163	080	53994	080
59761	085	60190	085
58532	090	60191	090
60164	095	60192	095
60165	100	60193	100

U6B1V Imperial		U6U6V Imperial	
Article #	Ø	Article #	Ø
60181	2.875	60209	2.875
60182	3.000	60210	3.000
60183	3.125	60211	3.125
60184	3.250	60212	3.250
60185	3.375	60213	3.375
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

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.

CART®seal B 14610 PPQ

Moulded Flanges range names B 146 - Shaft diameters equal to or less than 70 mm



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

U6B1V + Quench Metric		U6U6V + Quench Metric	
Article #	Ø	Article #	Ø
79707	025	79724	025
79708	028	79725	028
79709	030	79726	030
79710	032	79727	032
79711	033	79728	033
79712	035	79729	035
79713	038	79730	038
79714	040	79731	040
79715	043	79732	043
79716	045	79733	045
79717	048	79734	048
79718	050	79735	050
79719	053	79736	053
79720	055	79737	055
79721	060	79738	060
79722	065	79739	065
79723	070	79740	070

U6B1V + Quench Imperial		U6U6V + Quench Imperial	
Article #	Ø	Article #	Ø
79771	1.000	79787	1.000
79772	1.125	79788	1.125
79773	1.250	79789	1.250
79774	1.375	79790	1.375
79775	1.500	79791	1.500
79776	1.625	79792	1.625
79777	1.750	79793	1.750
79778	1.875	79794	1.875
79779	2.000	79795	2.000
79780	2.125	79796	2.125
79781	2.250	79797	2.250
79782	2.375	79798	2.375
79783	2.500	79799	2.500
79784	2.625	79800	2.625
79786	2.750	79801	2.750

Manufactured upon request only. Please consult us

CART®seal B 14810 PPQ

Machined clamps range names B 148 - Shaft diameters equal to or greater than 75 mm



U6B1V + Quench Metric		U6U6V + Quench Metric	
Article #	Ø	Article #	Ø
58496	075	60223	075
60218	080	58391	080
60219	085	60224	085
60220	090	60225	090
60221	095	59399	095
60222	100	54682	100

U6B1V + Quench Imperial		U6U6V + Quench Imperial	
Article #	Ø	Article #	Ø
60241	2.875	60266	2.875
60242	3.000	60267	3.000
60243	3.125	60268	3.125
60244	3.250	60269	3.250
60245	3.375	60270	3.375
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



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!

CARTseal® B 236

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

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

Moulded Flanges range names B 146 - Shaft diameters equal to or less than 70 mm



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

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

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

CARTseal® B 23612 Q

Moulded Flanges range names B 146 - Shaft diameters equal to or less than 70 mm



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

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

CART®seal B 14810 DB

T -20 °C to 220 °C

P < 2.5 MPa (25 bar)

S < 20 m/s

Manufactured upon request only.
Please consult us

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

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

All corrosive, abrasive and slightly clogging fluids.

U6U6V + U6B1V Metric

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

U6U6V + U6U6V Metric

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

U6U6V + U6B1V Imperial

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

U6U6V + U6U6V Imperial

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

CART®seal B 14810 DBVP

«Can be supplied
ATEX 
with approval»

CART®seal® B 14810 DBVP can operate either as a pressurized double mechanical seal or as a tandem mechanical seal without barrier pressure.

CART®seal® 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 the **B 14610** and **B 14810 DB** versions also apply to the **CART®seal® 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!

CART®seal B 14810 DBSA

The GM **CART®seal® B14810 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

LATTY®seal U 1000



Streamlined to an extreme, **LATTY®seal U 1000** is the mechanical seal of choice for a wide variety of NF EN 12756 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 slightly corrosive, non-abrasive and non-clogging fluids.

- Approval: NF EN 12756 specification.

R G2BV			
Article #	Ø	Article #	Ø
70010200	018	45823	033
70011175	020	70014419	035
60011176	022	70014430	038
70011174	024	70014287	040
70012165	025	70014431	043
70012122	028	70015458	045
70013145	030	40572	048
70013247	032	70015329	050

T -20 °C to 180 °C

P < 1 MPa (10 bar)

S < 10 m/s

LATTY®seal U 1110



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 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 BU6V											
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		

T -20 °C to 180 °C

P < 1 MPa (10 bar)

S < 10 m/s

R BVV											
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
85369	014	81628	024	85374	033	60075046	045	85377	060	85381	080
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		

LATTY®seal U 6810



Targeted at the immense field of process pumps built to NF EN 12756, **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.

- Approval: NF EN 12756 specification.

BU6V									
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
55598	018	55604	030	55608	043	55611	060	55617	085
55599	020	55605	032	52459	045	55612	063	55618	090
55600	022	55606	033	55609	048	55613	065		
55601	024	54158	035	54156	050	55614	070		
55602	025	55607	038	55610	053	55615	075		
55603	028	54157	040	54155	055	55616	080		

T -20 °C to 220 °C

P < 1 MPa (10 bar)

S < 15 m/s

U6U6V									
Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø	Article #	Ø
51670	018	50153	030	50158	043	43287	060	55624	085
50149	020	50154	032	50159	045	33158	063	55625	090
50151	022	50155	033	55619	048	55176	065		
50150	024	47007	035	33080	050	55622	070		
50152	025	50156	038	55620	053	49267	075		
19821	028	50157	040	55621	055	55623	080		

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

LATTY®seal U 1212

T -20 °C to 180 °C

P < 1 MPa (10 bar)

S < 10 m/s

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 on widely used NF EN 12756 pumps. Its conical spring concept makes it dependent on direction of rotation.

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

All slightly corrosive, abrasive and non-clogging fluids.

- Approval: NF EN 12756 specification.

R U6U6V

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

COMPLETE BALANCED MECHANICAL SEALS ●

LATTY®seal B 6810

T -20 °C to 220 °C

P < 2.5 MPa (25 bar)

S < 15 m/s

Aimed at high-pressure process pumps, built to NF EN 12756, **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.

- Approval: NF EN 12756 specification.

AU6V

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

Manufactured upon request only.
Please consult us

LATTY®seal B 10712

T -20 °C to 180 °C

P < 1 MPa (10 bar)

S < 10 m/s

Solely designed for the saling of highly abrasive or viscous media, **LATTY®seal B 10712** is the forgiving seal that heavy industry requires in terms of endurance and reliability.

Friction torque in tungstene carbide, niquel binder (U2)

Its ability to receive abuses is unsurpassed.

Pulp and paper mills, sugar, waste water applications.

All corrosive, abrasive and highly clogging fluids.

LATTY®seal B 17110 B / B 17210 B

T -20 °C to 220 °C

P < 2 MPa (20 bar)

S < 25 m/s

Using a State-of-the-Art welded bellows technology, **LATTY®seal B 17110 B** 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 B** a self cleaning seal. High rotation speeds are achievable.

Chemical, petrochemical, pulp and paper applications

All corrosive, slightly abrasive and clogging fluids.

● **LATTY®seal B 17110 B**

B AU6V					
Article #	Ø	Article #	Ø	Article #	Ø
64421	025	82215	040	85220	053
85210	028	82216	043	85221	063
85211	030	82217	045	77599	065
85212	032	81776	048	85222	070
74253	033	85218	055	85223	075
85213	035	85219	060	85224	080
82214	038	67331	050		

● **LATTY®seal B 17210 B**

B U6U6V					
Article #	Ø	Article #	Ø	Article #	Ø
85225	025	85228	040	85231	053
70852	028	85229	043	85232	063
76027	030	77664	045	76014	065
85226	032	67727	048	85233	070
85227	033	80870	055	85234	075
64305	035	85230	060	69805	080
68693	038	82098	050		

Manufactured upon request only. Please consult us

LATTY®seal B 23

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.).



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

LATTY®seal B 23110

Manufactured upon request only. Please consult us

BU6V Metric											
Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅
71400	018	71405	028	71410	038	71414	050	71419	063	71424	085
71401	020	71406	030	71411	040	71415	053	71420	065	71425	090
71402	022	71407	032	71412	043	71416	055	71421	070	71426	095
71403	024	71408	033	70934	045	71417	058	71422	075	71427	100
71404	025	71409	035	71413	048	71418	060	71423	080		

BU6V Imperial											
Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅
71428	0.750	71434	1.375	71439	2.000	71444	2.625	71449	3.250	71454	3.875
71634	0.875	71435	1.500	71440	2.125	71445	2.750	71450	3.375	71455	4.000
71431	1.000	71436	1.625	71441	2.250	71446	2.875	71451	3.500		
71432	1.125	71437	1.750	71442	2.375	71447	3.000	71452	3.625		
71433	1.250	71438	1.875	71443	2.500	71448	3.125	71453	3.750		

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

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

LATTY®seal B 23210

Manufactured upon request only. Please consult us

U6U6V Metric																	
Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅
71456	018	71459	024	71462	030	71465	035	71468	043	71471	050	71474	058	71477	065	71480	080
71457	020	71460	025	71463	032	71466	038	71469	045	71472	053	71475	060	71478	070	71481	085
71458	022	71461	028	71464	033	71467	040	71470	048	71473	055	71476	063	71479	075	71482	090
																71483	095
																71484	100

U6U6V Imperial																	
Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅	Article #	∅
71486	0.750	71489	1.125	71492	1.500	71496	1.875	71499	2.250	71502	2.625	71505	3.000	71508	3.375	71511	3.750
71487	0.875	71490	1.250	71494	1.625	71497	2.000	71500	2.375	71503	2.750	71506	3.125	71509	3.500	71512	3.875
71488	1.000	71491	1.375	71495	1.750	71498	2.125	71501	2.500	71504	2.875	71507	3.250	71510	3.625	71513	4.000



Manufactured upon request only. Please consult us

LATTY®seal B 23212

U6U6V Metric					
Article #	∅	Article #	∅	Article #	∅
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		

U6U6V Imperial					
Article #	∅	Article #	∅	Article #	∅
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		

LATTY®seal B 18212



T -20 °C to 180 °C

LATTY®seal B 18212, designed in compliance with NF EN 12756 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 with in extremely severe atmospheres.

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

Any corrosive, abrasive and clogging fluid.

● Approval: NF EN 12756 specification.

P < 2.5 MPa (25 bar)

S < 20 m/s

U6U6V	
Article #	∅
75306	055
62281	060
75307	065
75308	070
75309	075
75310	080
75311	085
66966	090
63157697	095
61808	100

Manufactured upon request only. Please consult us



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.

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

Any slightly corrosive, abrasive and non-clogging fluid.

COMPLETE BALANCED MECHANICAL SEALS

LATTY® seal B 16670 A3



T -20 °C to 220 °C

P < 1 MPa (10 bar)

S < 15 m/s

Manufactured upon request only. Please consult us

Since no metal part is in contact with the media, the externally mounted **LATTY® seal B 16670 A3** 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		

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		

ACCESSORIES

GDL/THERMO



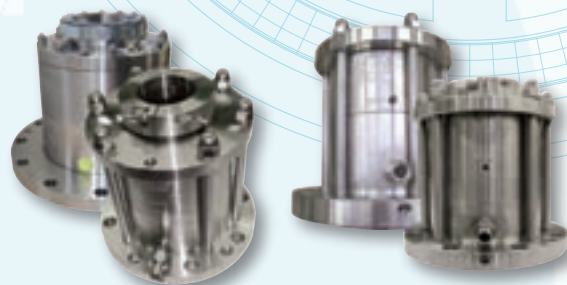
Servo-control and lubrication

LATTY® 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.

MODULES



Performance materials such as Hastelloy®, titanium, Uranus® for the metal components, perfluoride 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.

All spare parts on simple request – Please contact us!

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