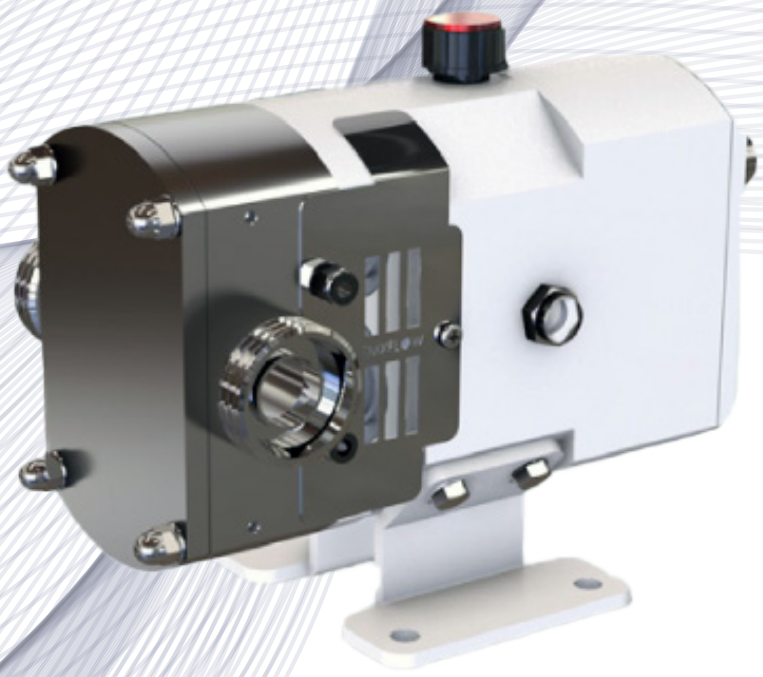
SLA
LOBE PUMP



TMXFLOW®
let it flow

Application

SLA lobe pumps combines cost effective simplicity and easy maintenance with TMX quality and reliability.

SLA has been developed for general applications within the dairy, Beverage, food, home, chemical and personal care industries.

Fully with CIP cleanable. This pump is also perfect for handing any liquid with low or high viscosity. When it comed to filtration and bottling Applications. Products containing brittle solids such as curd.

Thanks to specially designed lobes, it can be pumped without damage. Easy inspection or replacement without the need for pipework disassembly.

SLA Pump is a bare shaft rotary lobe pump. It is made of a stainless steel.

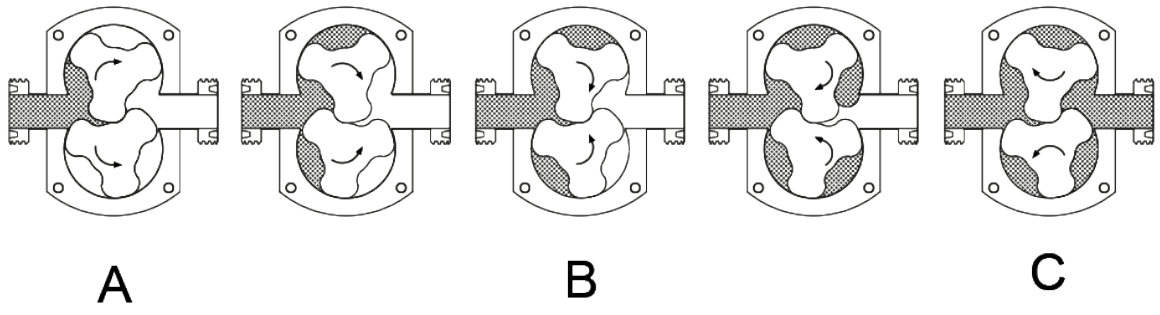
Pump casing and cover, and two-lobe rotors with sanitary attachment.

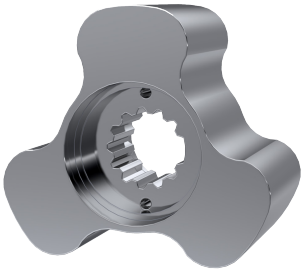
SLA lobe pump is provided with an intemal mechanical seal approved EHEDG. The seal is balanced and has a hygienic design. When required, other materials can be used.

SLA Eco Pump range is compact, efficient and capable of flow rates up to 122m3/h and pressures up to 12 bar.

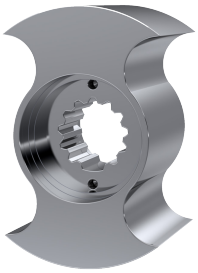
Operation

The positive displacement of the series SLA pump is provided by npn-contacting, contra-rotating two or tri-lobe rotors within a fully swept pump chamber.





Tri-Lobe



Bi-Wing

Operating Limits

Maximum flow	**122m3/h**
Maximum differential pressure	**12 Bar**
Maximum working pressure	**12 Bar**
Temperature range (EPDM)	**Duplex Stainless Stell**
Temperature CIP, max. 30 min	**Single, double mechanical seal**
Maximum speed	**950 rpm**

User Benefits

High efficiency
Low energy concumption
Compact size
Smooth flow
Reversible operation
Low shear pumping
Minimal pumped media agitation
Easy maintenance
Hygienic design

Materials

Pump Head Housing	**AISI 316L**
Gasket	**EPDM or FPM**
Gear Box	**GG25**
Shafts	**Duplex Stainless Steel**
Shaft Seal	**Single, double mechanical seal**
Surface Finish	**Ra <0,8 um**
Connections	**DIN 11851, SMS, ISO, Clamp**
Base Plate	**Stainless Steel**
Coupling Guard	**Stainless Steel**

Materials

SLA ECO Lobe Pump basically consist of two lobe rotors which rotate synchoronously inside a casing without touching each other.

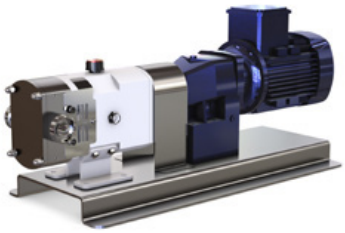
As the rotors rotate, the spaces between the lobes and the casing are filled with the pump product, which is transported to the discharge nozzle- with a fixed amount of displacement.

The pumped fluid forms a continuous stream thanks to the tolerances between the lobes and the pump casing, this ensuring an efficient pumping.

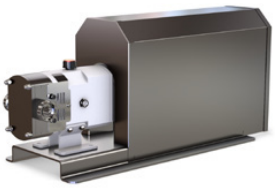
Configurations



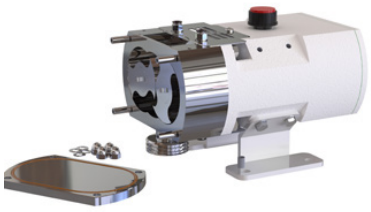
With bare shafts



With geared motor and coupling mounted on stainless steel base frame



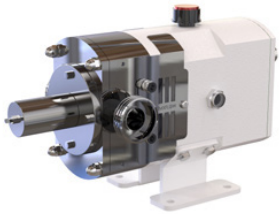
With stainless steel motor shroud



Rectangular inlet



With vertical ports

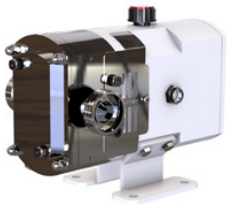


Pressure Relief Valve

Positive displacement rotary lobe pumps will continue to build up pressure when operating against a closed valve.

With this in mind,it is very important to add in safety device to prevent accidental over-pressurization and subsequent damage to the pump or system.

SLA pumps can be equipped with an integrated pressure relief valve to avoid these damages. Design and cleanability.

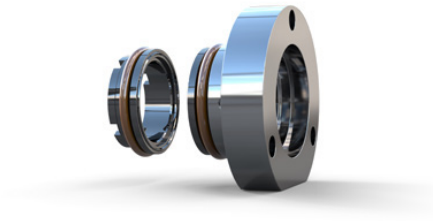


Heating Jackets

Heating jackets are available for all pump sizes.
This option makes it possible to heat the pump chamber and to ensure that products which solidify at ambient temperature are kept liquid.

Alternatively,the heating jackets for SLA are available for the rotor case and the front cover.

Due to the integrated design in the pump, it is a highly efficient system without any compromise in the hygienic design and cleanability.

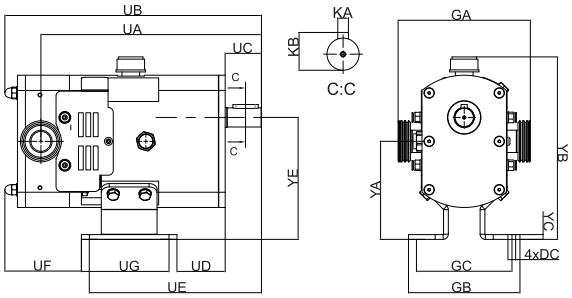


Mechanical Seals

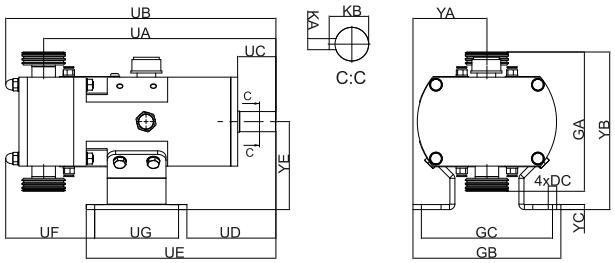
Single Mechanical Seal
Double Mechanical Seal
Flushing
Sic/Sic/EPDM or Viton
Tungsten/Tungsten/EPDM or Viton
Knife-Edge
Gaskets-EPDM, Viton, NBR, Kalrez, PTFE FEP

Dimensions

Horizontal Configuration



Vertical Configuration



Horizontal Dimensions

Type	UA	UB	UC	UD	UE	UF	UG	GA	GB	GC	YA	YB	YC	YE	KA	KB	DC
SLA-X 0-10	214	240	32	34	151	74	100	140	110	80	85	145	5	105	5	16	9
SLA-X 0-15	208	240	32	34	151	74	100	149	110	80	85	145	5	105	5	16	9
SLA-X 0-20	210	240	32	34	151	74	100	155	110	80	85	145	5	105	5	16	9
SLA-X 0-25	206	240	32	34	151	74	100	145	110	80	85	145	5	105	5	16	9
SLA-X 1-25	277	326	45	106,5	226,5	66	90	166	140	110	123	229	6	100	8	28,3	12
SLA-X 1-40	277	322	45	106,5	226,5	66	90	174	140	110	123	229	6	100	8	28,3	12
SLA-X 1-50	283	338	45	106,5	226,5	72	90	178	140	110	123	229	6	100	8	28,3	12
SLA-X 2-40	327	385	55	128	288	59	120	195	163	133	138	262	6	100	8	32	14
SLA-X 2-50	333	395	55	128	288	65	120	195	163	133	138	262	6	100	8	32	14
SLA-X 2-65	341	412	55	128	288	73	120	195	163	133	138	262	6	100	8	32	14
SLA-X 2-80	348	428	55	128	288	140	120	195	163	133	138	262	6	100	8	32	14
SLA-X 3-65	430	510	85	175	375	81	150	244	194	154	176	327	8	150	10	41	16
SLA-X 3-80	432	517	85	175	375	88	150	254	194	154	176	327	8	150	10	41	16
SLA-X 3-100	442	536	85	175	375	98	150	272	194	154	176	327	8	150	10	41	16
SLA-X 4-100	525	627	103	222	442	108	170	313	213	173	220	405	12	200	14	48,5	16
SLA-X 4-150	550	668	103	222	442	133	170	343	213	173	220	405	12	200	14	48,5	16

Vertical Dimensions

Type	UA	UB	UC	UD	UE	UF	UG	GA	GB	GC	YA	YB	YC	YE	KA	KB	DC
SLA-X 0-10	214	240	32	34	151	74	100	140	135	105	68	142	5	73	5	16	9
SLA-X 0-15	208	240	32	34	151	74	100	149	135	105	68	142	5	73	5	16	9
SLA-X 0-20	210	240	32	34	151	74	100	155	135	105	68	142	5	73	5	16	9
SLA-X 0-25	206	240	32	34	151	74	100	145	135	105	68	142	5	105	5	16	9
SLA-X 1-25	277	326	45	106,5	226,5	66	90	166	176	146	88	187	6	150	8	28,3	12
SLA-X 1-40	277	322	45	106,5	226,5	66	90	174	176	146	88	191	6	150	8	28,3	12
SLA-X 1-50	283	338	45	106,5	226,5	66	90	178	176	146	88	197	6	150	8	28,3	12
SLA-X 2-40	327	385	55	128	288	59	120	195	196	166	98	219	6	180	8	32	14
SLA-X 2-50	333	395	55	128	288	65	120	195	196	166	98	220	6	180	8	32	14
SLA-X 2-65	341	412	55	128	288	73	120	195	196	166	98	226	6	180	8	32	14
SLA-X 2-80	348	428	55	128	288	140	120	195	196	166	98	231	6	180	8	32	14
SLA-X 3-65	430	510	85	175	375	81	150	244	236	196	118	275	8	220	10	41	16
SLA-X 3-80	432	517	85	175	375	88	150	254	236	196	118	280	8	220	10	41	16
SLA-X 3-100	442	536	85	175	375	98	150	272	236	196	118	290	8	220	10	41	16
SLA-X 4-100	525	627	103	222	442	108	170	313	254	214	127	357	12	280	14	49,5	16
SLA-X 4-150	550	668	103	222	442	133	170	343	254	214	127	371	12	280	14	49,5	16

The technical information is provided for informational purposes only and is subject to change at any time without obligation to notify. For the appropriate product or solution selection, we kindly request that you contact our technical department.

Operating Data

Model	Tri-Lobe max(m^3/h)	Bi-Wing max(m^3/h)	Max Bar	Tri-Lobe Volume at 100 rpm/lt	Bi-Wing Volume at 100 rpm/lt	Max Speed (rpm)
SLA-X 1-25	7,98	9,12	12bar	14	16	950
SLA-X 1-40	8,55	9,69	12bar	15	17	950
SLA-X 1-50	10,83	12,54	10bar	19	22	950
SLA-X 2-40	15,96	18,81	12bar	28	33	950
SLA-X 2-50	19,38	23,37	10bar	34	41	950
SLA-X 2-65	25,08	30,21	10bar	44	53	950
SLA-X 2-80	27,66	33,46	10bar	57	69	950
SLA-X 3-65	30,24	36,72	12bar	70	85	720
SLA-X 3-80	35,85	43,2	10bar	83	100	720
SLA-X 3-100	43,63	53,13	10bar	101	123	720
SLA-X 4-100	72,36	79,2	8bar	201	220	600
SLA-X 4-125	90	98,64	8bar	250	274	600
SLA-X 4-150	107,28	117,72	8bar	298	327	600

The technical information is provided for informational purposes only and is subject to change at any time without obligation to notify. For the appropriate product or solution selection, we kindly request that you contact our technical department.

www.quantumengineering.be
sales@quantumengineering.be

Corsicalaan 9
B-2950 Kapellen

Tel. +32(0)467.00.77.72.

TMXFLOW