

I Application

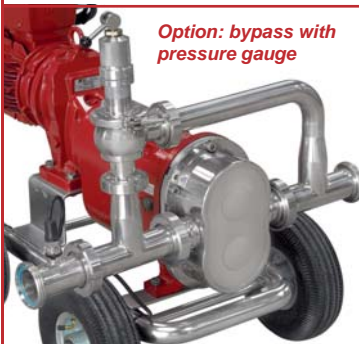
The TLS pump is a positive displacement lobe rotor pump of a sanitary design providing high performance and maximum reliability with a reduced size. This pump is perfect for filtration and bottling in wine making, it is characterised by a low maintenance cost and delicate treatment of the product.

I Operating principle

The TLS pumps basically consist of two lobe rotors which rotate synchronously inside a casing without touching each other. As the rotors rotate, the spaces between the lobes and the casing are successively filled with fluid, 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, thus ensuring an efficient pumping.

I Design and features

- Close-coupled construction.
- Casing and cover in stainless steel manufactured by investment casting.
- Tri-lobe rotors.
- Internal surface finish: $Ra < 08 \mu m$.
- Connections: DIN 11851.
- Motor 3ph, 400V, 50Hz, IP55.
- Gear motor with built-in variable speed drive.
- Easy cleaning and maintenance.
- Reversible sanitary pump.
- St.St. trolley.
- CE built-in control panel.
- 10 m cable with plug.
- Red painted RAL3003.



Option: bypass with pressure gauge

I Materials

Parts in contact with the product:	AISI 316L (1.4404)
Other parts:	AISI 304L (1.4301)
Support:	GG-15
Gaskets (standard):	EPDM according to FDA
Mechanical seal (standard):	C/SiC/EPDM



Option: Control Range

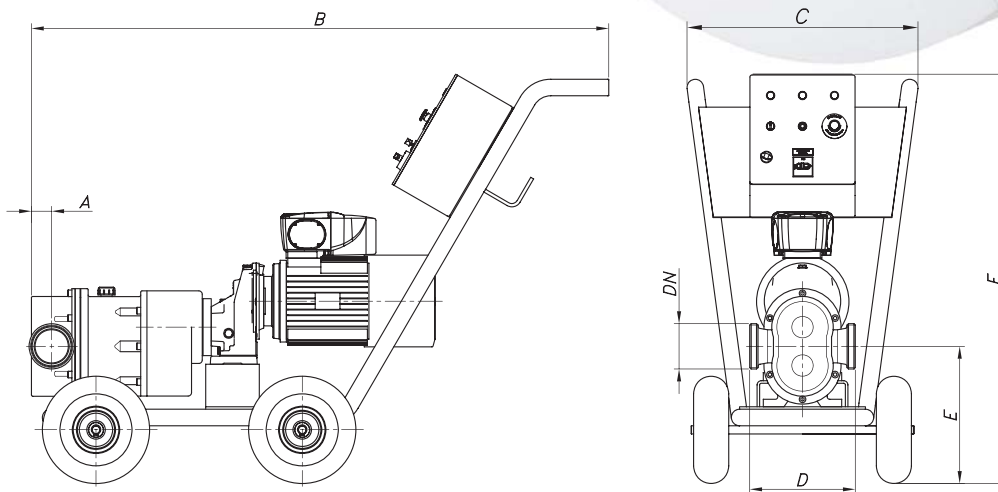


I Options

- Mechanical seal SiC/SiC, TgC/SiC, C/StSt.
- Lip seal.
- Gaskets: FPM (Viton) and PTFE.
- Exterior bypass with or without handle.
- Bi-wing lobes.
- Mechanical disc variator.
- Connections: Clamp, SMS, RJT, Garolla, Macon...
- Liquid detector with timer.
- Remote control.
- St.St. electric panel.

I Technical specifications

Max. flow	30 m ³ /h	132 US GPM
Max. working pressure	6 bar	87 PSI
Max. working temperature	120 °C	248°F



TYPE	DN	Flow (1) m3/h	Pressure(2) bar	Speed rpm	Power Kw	A	B	C	D	E	F	Weight Kg	CODE
TLS 2-40	40	0,5 - 5	5 max.	190-650	1,85	29	1360	560	190	295	1000	110	D2122-0140018CV
TLS 2-50	50	1 - 7				36	1370		194	115		D2123-0140018CV	
TLS 3-50		1,5 - 16		38	1390	239	225		D2132-0151030CV				
TLS 3-80	80	2 - 25		190-600	4	49	1410		256	332		255	D2134-0151040CV

(1) nominal flow at 2 bar for 1cP liquids.
 (2) maximum pressure with the power installed.

