



Alfa Laval Twin Screw Pump

When Process Flexibility is the Issue

Application

The Alfa Laval Twin Screw pump range combines process flexibility with the highest quality standards. The Alfa Laval range has been certified by EHEDG and conforms to the 3A standard. Consequently, it is designed for use in applications within the Dairy, Beverage and Food industries where cleanability is paramount.

With a front loading cartridge shaft seal, a rigid stainless steel gearbox with timing gears located between bearings, providing balanced loading of the shaft assembly and an oil chamber design with enhanced lubrication to the bearings and gears the Alfa Laval Twin Screw pump is designed for optimal reliability and quick and easy maintenance.

The Alfa Laval Twin Screw pump is available in nine models based on three frame sizes. Each frame size is available with three different screw profiles for varying pressure, flow and solids handling capabilities.



TECHNICAL DATA

Standard materials

Pump casing	W. 1.4404 (316L), diffusion hardened
Screws, front cover, seal housing:	W. 1.4404 (316L)
Product wetted elastomers:	EPDM
Other elastomers:	FPM
Shaft seal:	Single flush, Silicon Carbide/Silicon Carbide
Gear box:	Stainless steel
Base plate:	Stainless steel
Coupling guard:	Stainless steel

Motors

Direct coupled motor, 4, 6 or 8 poles, or gear motor, 4 poles, to IEC metric standard, 50/60 Hz, suitable for frequency conversion, IP55, insulation class F.

Warranty

Extended 3-years warranty on Alfa Laval pumps. The warranty covers all non-wear parts on the condition that genuine Alfa Laval Spare Parts are used.

Shaft seals

Single, Single flush and double mechanical cartridge seals available. All options are fully front loading and interchangeable.

Flushed seals, connections

22 – 36:	1/4" G
42 – 46:	1/2" G

Max flush pressure

Single flush:	0.5 bar
Double mechanical:	16 bar (max 6 bar over product pressure)

Flush flow rate	30 l/hr
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Pressure

Max inlet pressure	16 bar
Max discharge pressure	16 bar

Temperature

Process, max	100°C
CIP/SIP, max	150°C

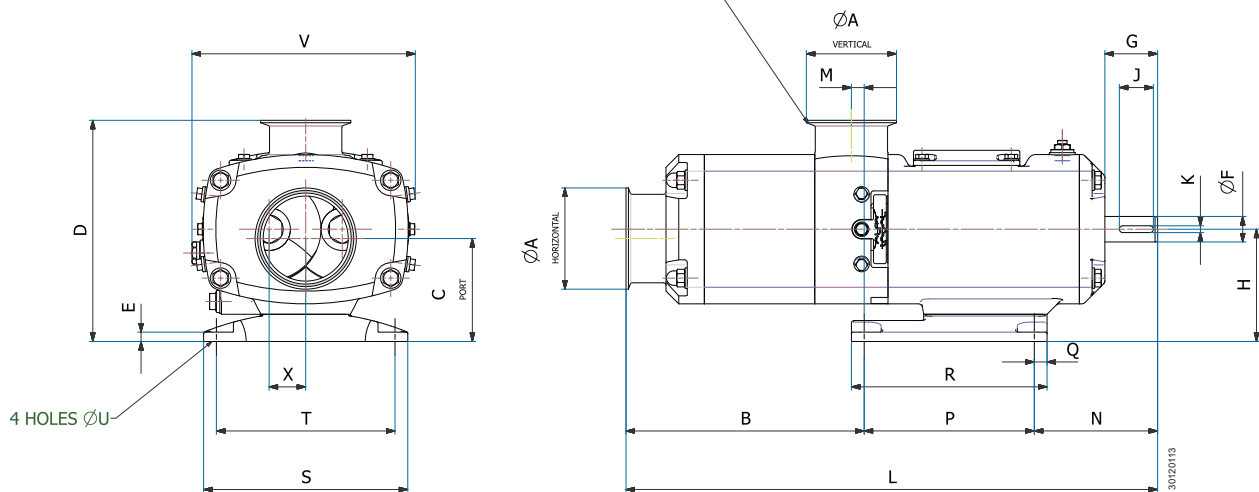
Note: For higher temperatures, please contact Alfa Laval.

Operating data

Model	Max Flow m3/h	Max Differential Pressure bar	Max speed		Max Particle Size mm
			Process	CIP	
			rpm	rpm	
22	18.2	16	2500	3300	12
24	24.3	12	2500	3300	16
26	36.5	8	2500	3300	24
32	34.8	16	2200	3000	16
34	46.6	12	2200	3000	21
36	69.9	8	2200	3000	32
42	66.8	16	1800	2800	21
44	89.5	12	1800	2800	29
46	134.3	8	1800	2800	43

Dimension

PUMP SHOWN WITH TRI-CLAMP, SUCTION AND DISCHARGE CONNECTIONS



Model	ØA Vertical		B	D	E	F	G	H	J	K	L	N	P	Q	R	S	T	U	V	X
	mm	inch																		
OS22	40	1½																		
OS24	50	2	210	220	9	20	54.5	112	40	6	505	117.5	165	12.5	190	200	175	11	216	33
OS26	65	2½																		
OS32	65	2½																		
OS34	80	3	265	260	11	30	62	132	40	8	625	145	200	15	230	240	210	11	265	43
OS36	80	3																		
OS42	80	3																		
OS44	100	4	340	350	15	45	87	180	70	14	790	180	250	20	290	320	280	17.5	346	58
OS46	100	4																		

Model	ØA		C			
	Horizontal		DIN11851		Tri-Clamp	BS 4825-4 (IDF)
	mm	inch	DIN 11864-1-A-A	SMS	DIN 11864-1-A-C	BS 4825-5 (RJT)
OS22	50	2	90	89.3	88.75	88.8
OS24	65	2½	98	95.15	95.10	95.15
OS26	80	3	105.5	101.45	101.45	101.5
OS32	80	3	111.5	107.45	107.45	107.5
OS34	100	4	121	119.8	119.7	119.8
OS36	100	4	148.5	147.3	147.2	147.3
OS42	150	6	173.5	-	171.93	-

Options

- A. Single mechanical shaft seal.
- B. Double mechanical shaft seal.
- C. Silicon Carbide/Carbon seal faces
- D. Product wetted elastomers in FPM or FFPM.
- E. Diffusion hardened screws.
- F. Heating jacket.
- G. Rectangular inlet.
- H. Hydrostatic testing with certificate.
- I. Reversed flow.
- J. Bottom inlet or outlet.
- K. Stainless steel shroud covering coupling and motor.
- L. Baseplate fitted with adjustable stainless steel ball feet.
- M. ATEX compliance.

Pump sizing

In order to correctly size a twin screw pump some essential information is required. Provision of this information listed below enables our Technical Support personnel to obtain the optimum pump selection. Specific CIP data are important as well.

Product/Fluid Data

- Fluid to be pumped
- Viscosity
- Pumping temperature, minimum, normal and maximum
- Cleaning in Place temperature(s), minimum, normal and maximum

Performance Data

- Flow rate, minimum, normal and maximum
- Discharge head/pressure (closest to pump outlet)
- Suction condition

Notel

For further details, see also 100000817.

This product has EHEDG certificate

Alfa Laval reserves the right to change specifications without prior notification.

How to contact Alfa Laval

Contact details for all countries
are continually updated on our website.
Please visit www.alfalaval.com to
access the information direct.