



INSHENG

Standardized Chemical Pump

Type VCL

DIN EN 22858/ISO (2858)



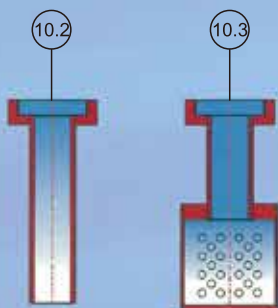
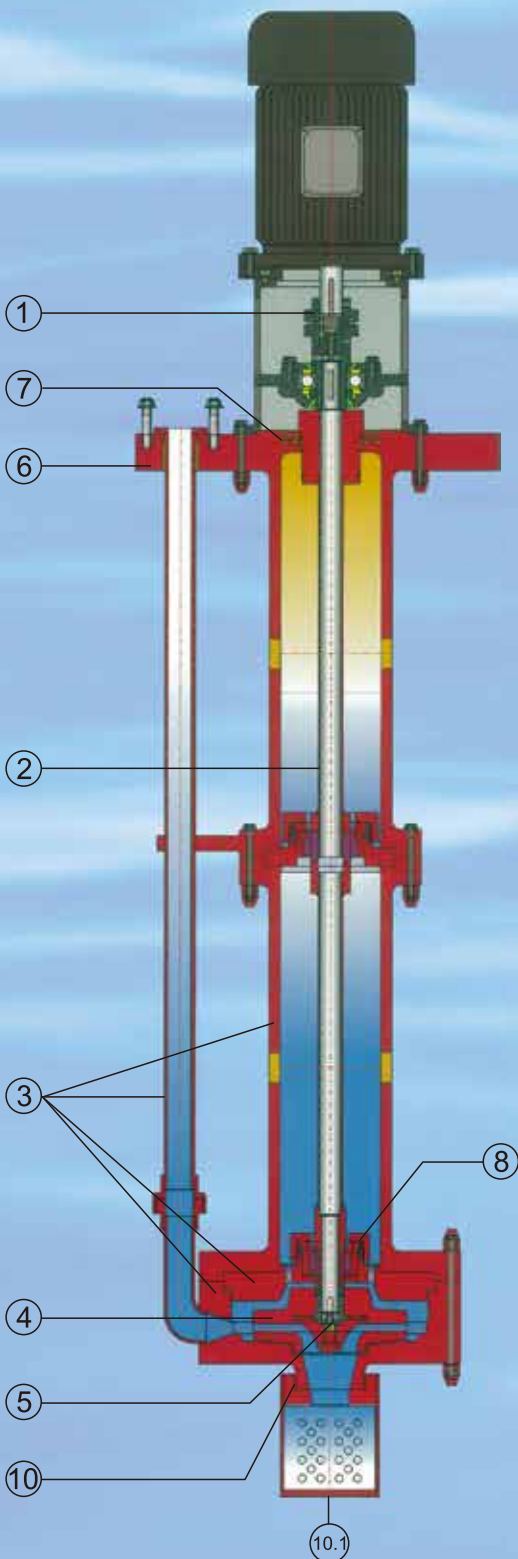
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Vertical Chemical Pump Type VCL

Sectional Drawing

▲ Design features:

1. Elastic coupling connecting motor shaft to pump shaft.
2. The shaft with solid plastic protection sleeve to suit the requirements of the chemical environment.
3. Pump casing, casing cover, suspension pipe and discharge piping made of chemical resistant plastic.
4. Impeller: Closed, semi-open and ideal impeller of flow dynamics through 3-D curved vanes designs available.
5. Impeller is positively locked to the shaft for reverse rotation protection.
6. Circular sole plate, special sole plate dimensions and sole plates with additional supporting flange available on request.
7. Labyrinth seal protects interior space against gases and vapours.
8. Vertical setting depth can be extended with additional intermediate bearings.
9. External flushing system for plain bearing necessary when the fluid pumped is loaded with solids or tends to crystallize.
10. Pump available with extended suction piping or suction strainer on request.
 - 10.1 Suction strainer
 - 10.2 Suction pipe up to length of 2000mm
 - 10.3 Suction strainer and suction pipe



Material

Parts of the pump in contact with fluid are manufactured from the following standard plastics:

Polypropylene PP

Temperature range from

0°C to +95°C

High Molecular Polyethylene PE-1000

Temperature range from

-50°C to +80°C

Polyvinylidene Fluoride PVDF

Temperature range from

-20°C to +130°C

▲ Performance data for 50 Hz operation

Pump capacity [Q] up to 80m³/h

Total differential head [H] up to 65m

▲ Performance data for 60 Hz operation

Pump capacity [Q] up to 80m³/h

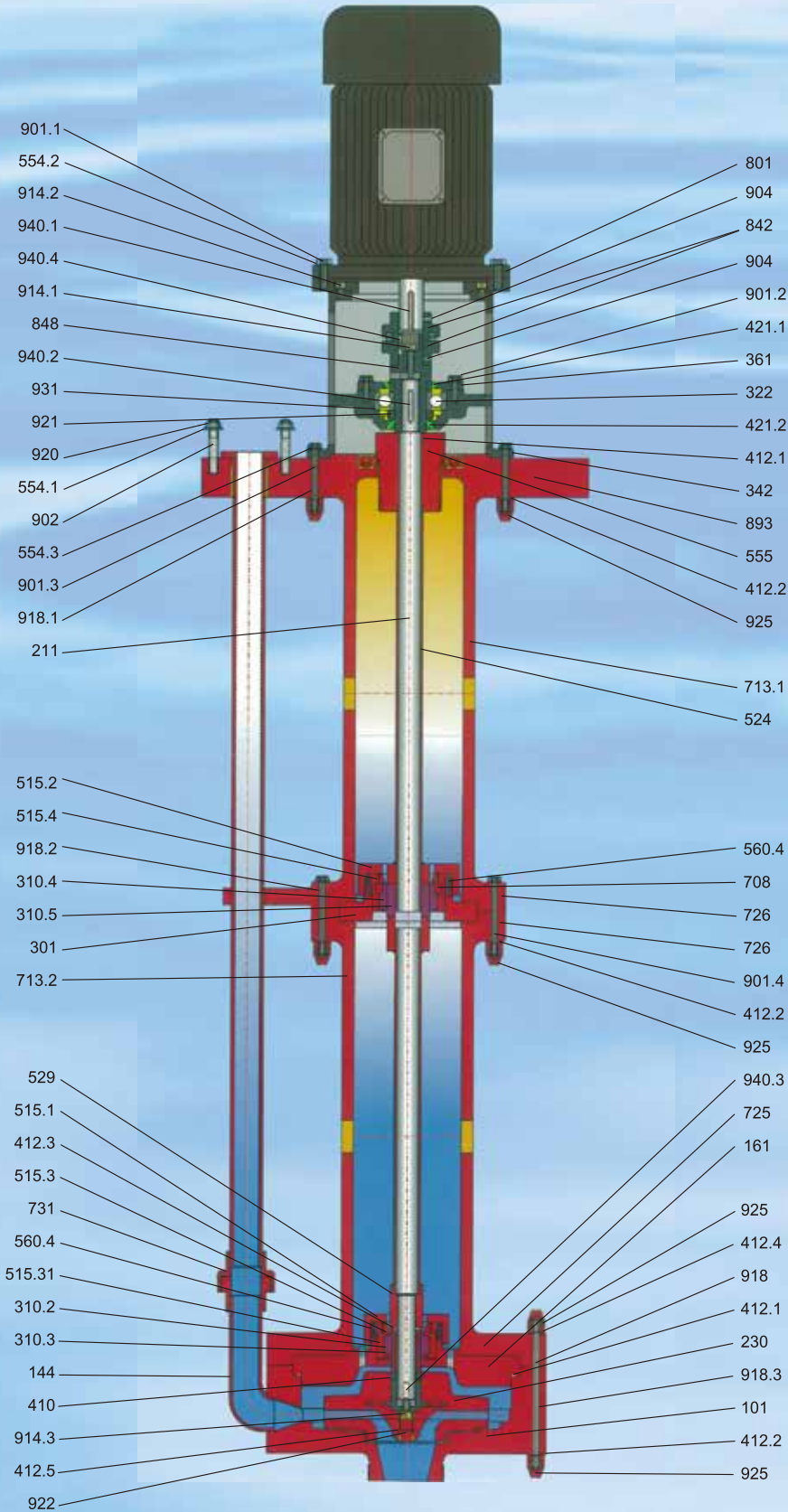
Total differential head [H] up to 65m

▲ Service

1. Performance data for standard pumps.

2. Pump dimension for standard pumps, extended pump dimension on request.

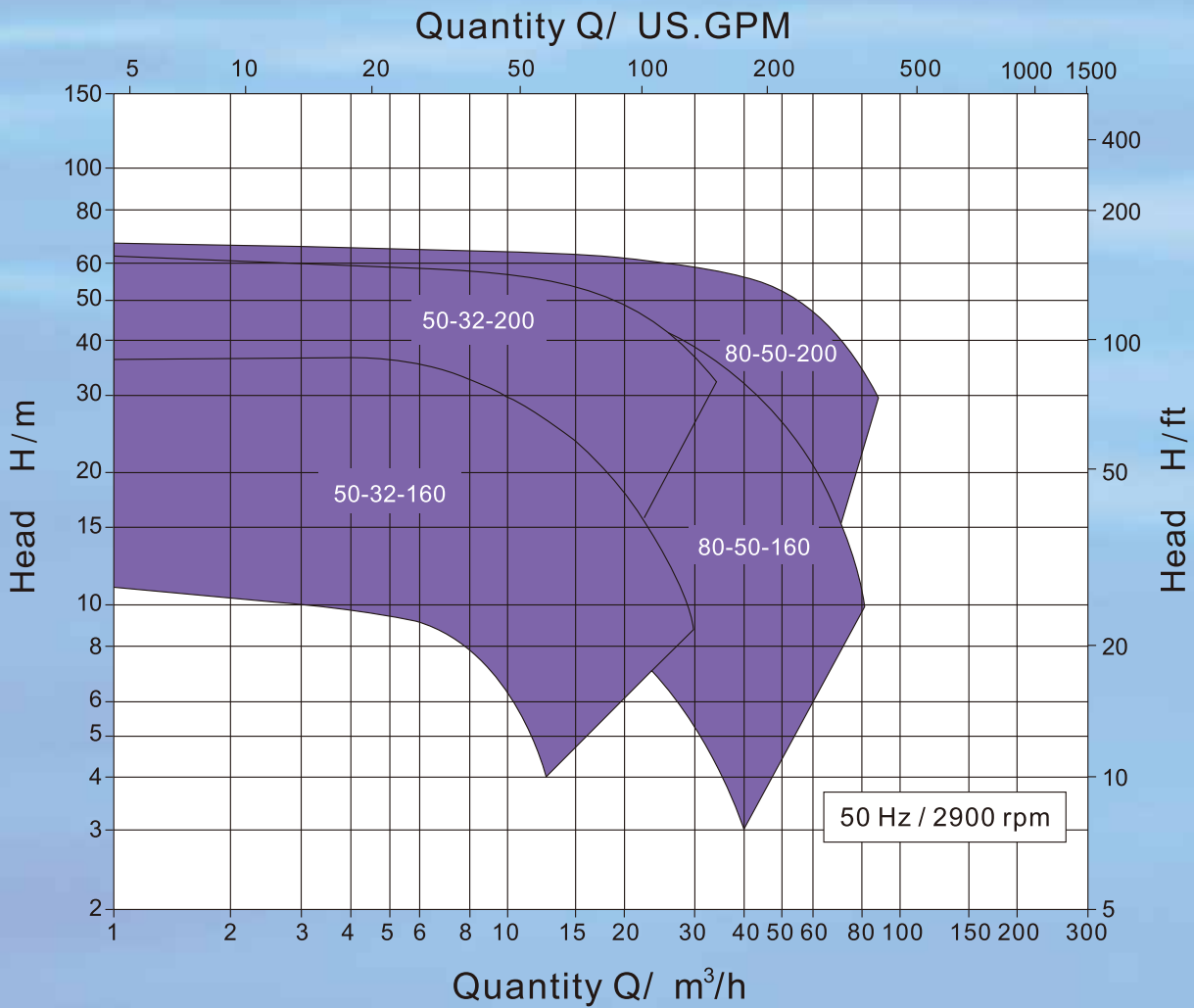
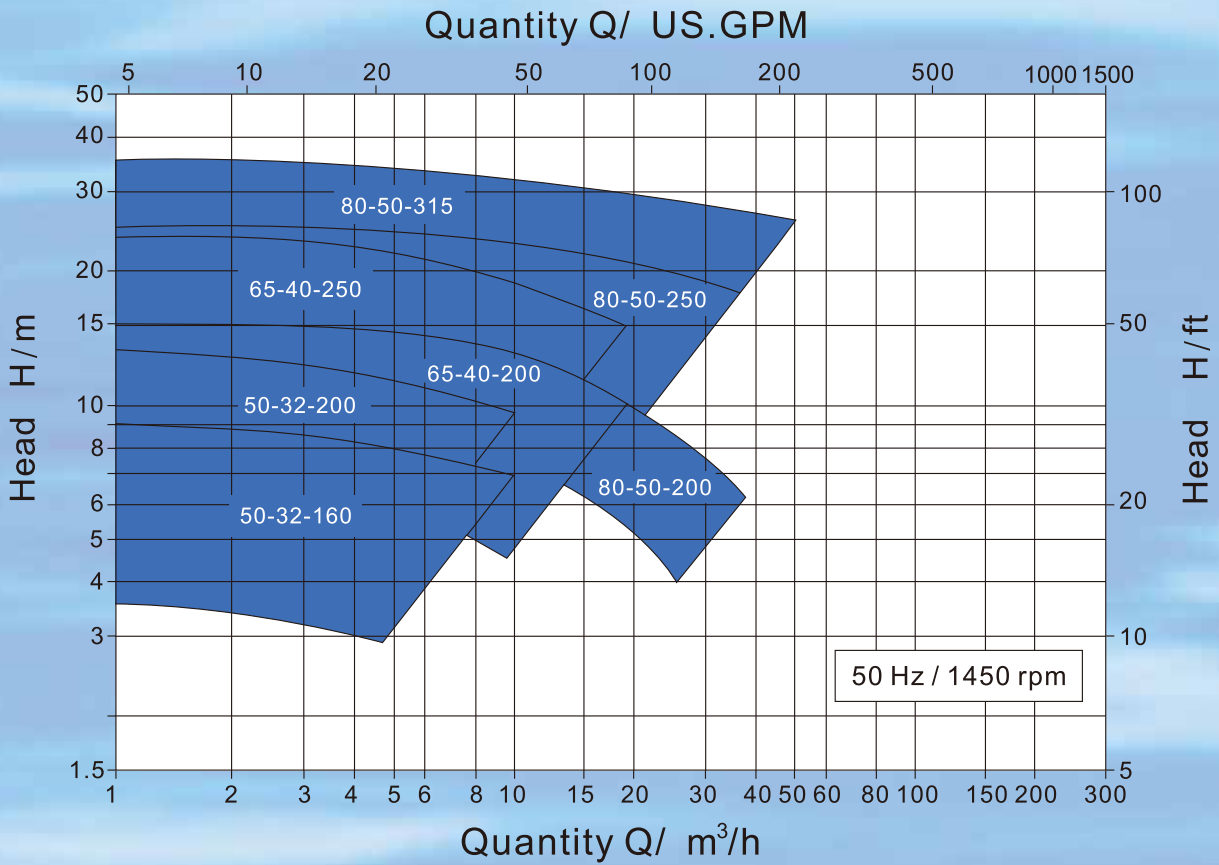
Sectional Drawing and Parts List Design VCL



PART-NO.	Designation
101	Volute casing
144	Delivery elbow
161	casing cover
211	Shaft
230	Impeller
301	Intermediate bearing holder
310.XXX	Plain bearings
322	Radial ball bearing
342	bearing lantern
361	Bearing end cover
410	Profile joints
412.XXX	O-Ring
421.XXX	Radial shaft seal ring
515.XXX	Taper lock ring
524	Shaft sleeve
529	Bearing sleeve
554.XXX	Washer
555	Labyrinth disc
560.4	Pin
708	Scavenge pipe holder
713.1	Suspension pipe,upper
713.2	Suspension pipe,lower
725	Casing flange
726	Intermediate bearing flange
731	Pipe union
801	Flange motor
842	Claw coupling
848	Intermediate coupling
893	Sole plate
901.XXX	Hexagon head bolt
902	Stud
904	Fixed bolt
914.XXX	Socket head cap screw
918	Threaded rod
918.XXX	Threaded rod sleeve
920	Nut
921	Shaft nut
922	Impeller screw
925	Cap nut
931	Lock washer
940.XXX	Fitting key

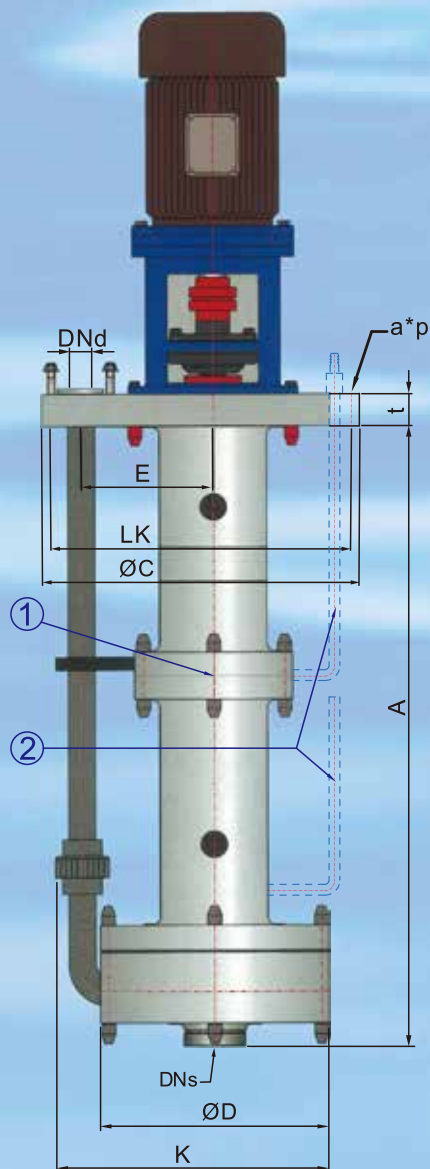
Part-No. and designation in accordance with DIN 24250

Performance range charts



Vertical Chemical Pump Type VCL

Dimensions-Standard design



Type	PUMP Size	DN _s	DN _d	a	ØC	D	E	K	LK	p	t
VCL	50/32/160	50	32	4	480	295	180	365	440	13	45
	50/32/200	50	32	6	540	370	225	445	508	13	50
	65/40/200	65	40	6	540	370	225	450	508	13	50
	65/40/250	65	40	8	590	425	245	485	558	13	60
	80/50/160	80	50	4	480	295	180	370	440	13	45
	80/50/200	80	50	6	540	370	225	455	508	13	50
	80/50/250	80	50	8	590	425	245	490	558	13	60
	80/50/315	80	50	10	630	450	285	558	598	13	60

Range of VCL setting depths [A]		
motor-speed(1/min)	VCL without intermediate bearing	VCL with intermediate bearing
1450	400-1600	1600-3000
1750	400-1600	1600-3000
2900	400-1200	-
3500	400-1200	-

Dimensions in mm

For motor dimensions , please refer to motor catalogue

Further size and special submersion depths on request

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