



Pumping Solutions for Sump Applications



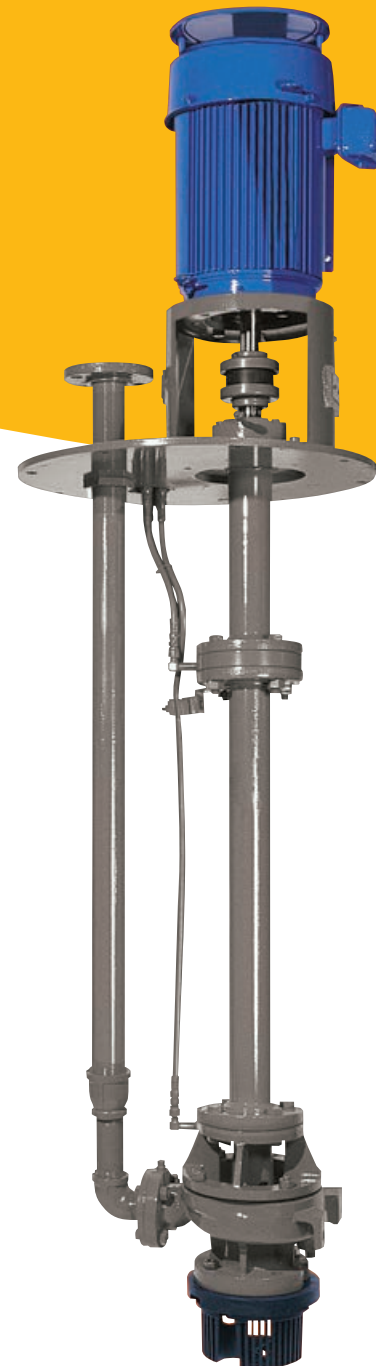
Leader in Flow Management

Flowserve is one of the world's leading providers of fluid motion and control products and services. Operating in more than 55 countries, the company produces engineered and industrial pumps, seals and valves as well as a range of related flow management services.

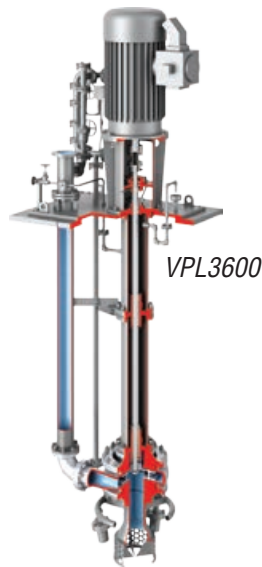
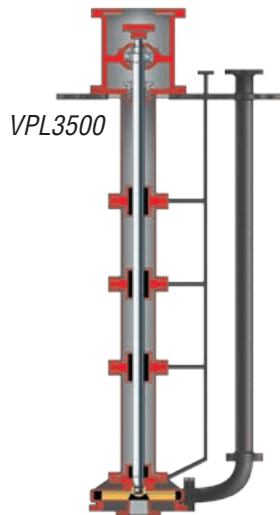
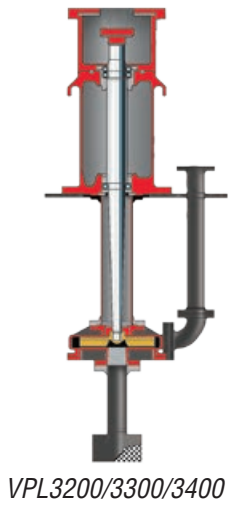
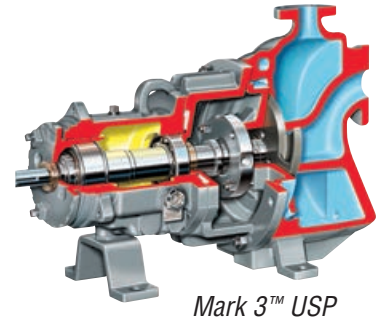
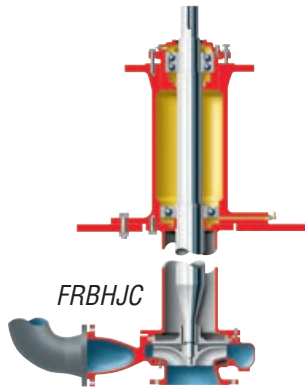
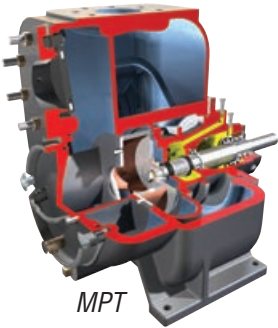
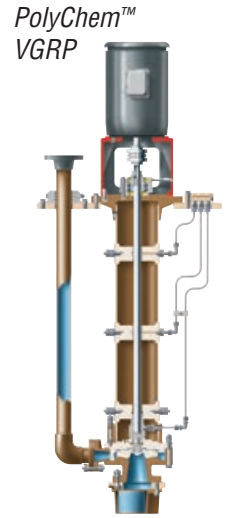
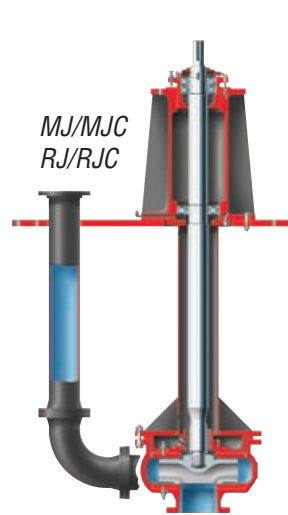
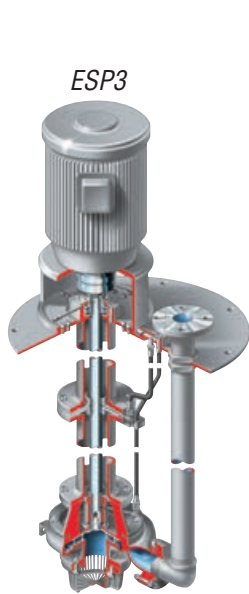
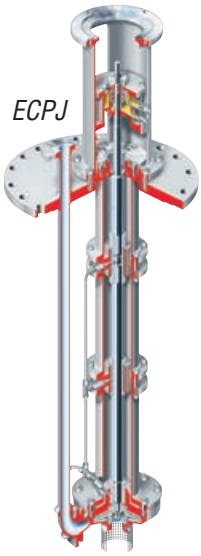
Flowserve offers a wide range of pumping solutions for sump services.

Whether it is for petroleum, chemical, mining, metals, paper or general industries, Flowserve has the pump for any sump service. Typical applications include:

- Mixed chemical wastes
- Waste acid transfer
- Abrasive slurries
- Fly ash pond transfer
- Stringy or fibrous slurries
- Effluent
- Water treatment
- Dirty water
- Waste treatment lagoon service
- Run-off
- Low-NPSH available sump services
- High discharge heads



Flowserve has the pump for any sump service.



Pump Model	Flows to	Heads to	Pressure to	Max Temperature	Product Description
CPXV	1400 m ³ /h (6160 gpm)	250 m (820 ft)	25 bar (365 psi)	400°C (752°F)	ISO 5199 compliant design with ISO 13709/API 610 features
ECPJ	1000 m ³ /h (4400 gpm)	150 m (500 ft)	20 bar (285 psi)	350°C (660°F)	Lineshaft bearing designed to ISO 13709/API 610 VS4 requirements
ESP3	1300 m ³ /h (5700 gpm)	90 m (300 ft)	12 bar (175 psi)	180°C (350°F)	Lineshaft bearing design; wet-end parts interchangeable with Mark 3 ASME B73.1 pumps
FRBHJC	2700 m ³ /h (12 000 gpm)	100 m (330 ft)	14 bar (200 psi)	150°C (300°F)	True stiff shaft cantilever design, without bottom bearing or flushing water
Mark 3 ISO Self-Priming	100 m ³ /h (440 gpm)	100 m (330 ft)	25 bar (365 psi)	400°C (752°F)	Self-priming, ATEX certified, CE marked
Mark 3 Unitized Self-Primer	320 m ³ /h (1400 gpm)	120 m (400 ft)	20 bar (285 psi)	370°C (700°F)	Self-priming ASME type; multiple wet-end alloys available
MJ/MJC RJ/RJC	1350 m ³ /h (6000 gpm)	30 m (100 ft)	10 bar (150 psi)	110°C (225°F)	MJ: hard metal. RJ: rubber-lined. Direct coupled or “V” belt driven
MPT	600 m ³ /h (2650 gpm)	35 m (115 ft)	5 bar (72 psi)	75°C (165°F)	Self-priming, solids handling design
PolyChem VGRP	565 m ³ /h (2500 gpm)	110 m (350 ft)	17 bar (250 psi)	90°C (200°F)	Glass-reinforced vinyl ester design for general industrial use
Terra-Titan	250 m ³ /h (1100 gpm)	45 m (150 ft)	5 bar (70 psi)	100°C (212°F)	Cantilever design with hard-metal or urethane wet-end
VPL1700	182 m ³ /h (800 gpm)	244 m (800 ft)	21 bar (300 psi)	52°C (125°F)	Multistage, vertical, toxic liquid, emergency seal
VPL3200	4542 m ³ /h (20 000 gpm)	91 m (300 ft)	21 bar (300 psi)	149°C (300°F)	Cantilever, dry-run capability
VPL3300	1500 m ³ /h (6600 gpm)	91 m (300 ft)	21 bar (300 psi)	149°C (300°F)	Cantilever, volatile organic compounds
VPL3400	1500 m ³ /h (6600 gpm)	91 m (300 ft)	21 bar (300 psi)	593°C (1100°F)	Molten salt transfer
VPL3500	4542 m ³ /h (20 000 gpm)	150 m (492 ft)	21 bar (300 psi)	100°C (212°F)	Single-stage vertical lineshaft, ISO 13709/API 610 (VS4) compliant
VPL3600	1500 m ³ /h (6600 gpm)	150 m (492 ft)	21 bar (300 psi)	100°C (212°F)	Vertical lineshaft, slurry impeller, custom shaft length, ISO 13709/API 610 (VS4) compliant



Bulletin FPD-1465b (E/A4) November 2014. © 2014 Flowserve Corporation

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