

SVL/SVT API 610 11th (ISO 13709) Vertical Multi-Stage Pump



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Oil & gas



Hydrocarbon
processing
industry



Power
generation



Pulp and
paper



General
industry



Chemical
processing
industry

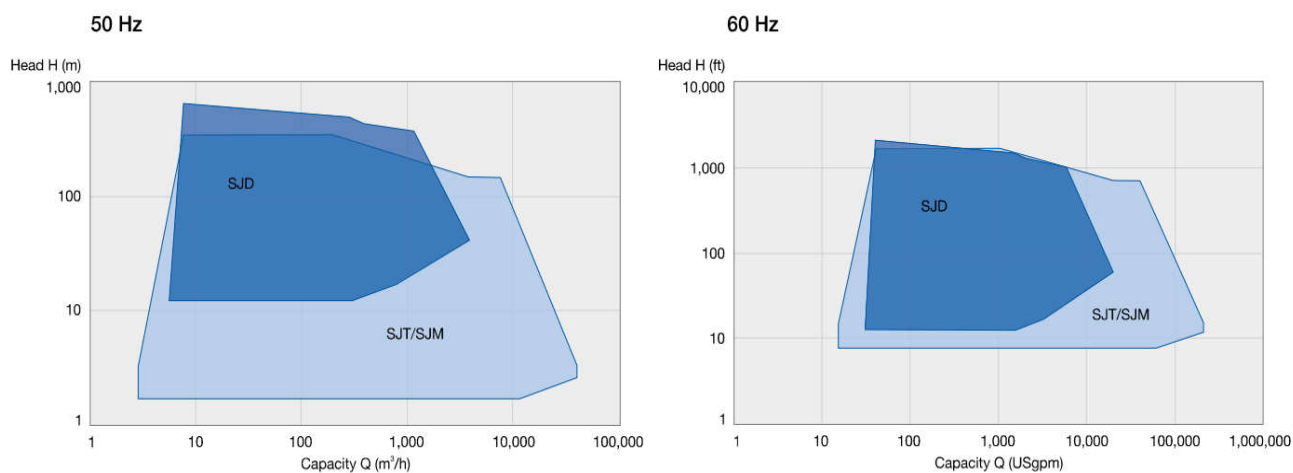


Water

Operate Data

50 Hz		60 Hz
up to 760 mm	Pump sizes	up to 30 inches
10 to 30,000 m ³ /h	Capacities	40 to 130,000 USgpm
up to 700 m	Heads	up to 2,500 feet
up to 100 bar	Pressures	up to 1,450 psi
-170 to +205°C	Temperatures	-280 to +400°F
up to 3,600 rpm	Speeds	up to 3,600 rpm

Performance Range



Materials

API 610 Material Codes

S-4, S-5, S-6, S-8, S-9, C-6, A-8, D-1, D-2, 317L

Main Applications

Source Pump API610 VS1/VS6 pumps are specified whenever limited Net Positive Suction Head(NPSH) is available, due to System container or liquids operating near their vapor pressure.

1 First stage impeller

- Low Net Positive Suction Head Required (NPSHR) allows use of a shorter pump

2 Series impellers

- High efficiency; optional thrust balanced impellers for reduced thrust load

3 Column bearings

- Mounted in a reversible bearing spider that may be flipped to run a new bearing on a different shaft surface

4 Discharge heads

- Cast or fabricated for various nozzle, thrust bearing and seal configurations

5 Shaft sealing

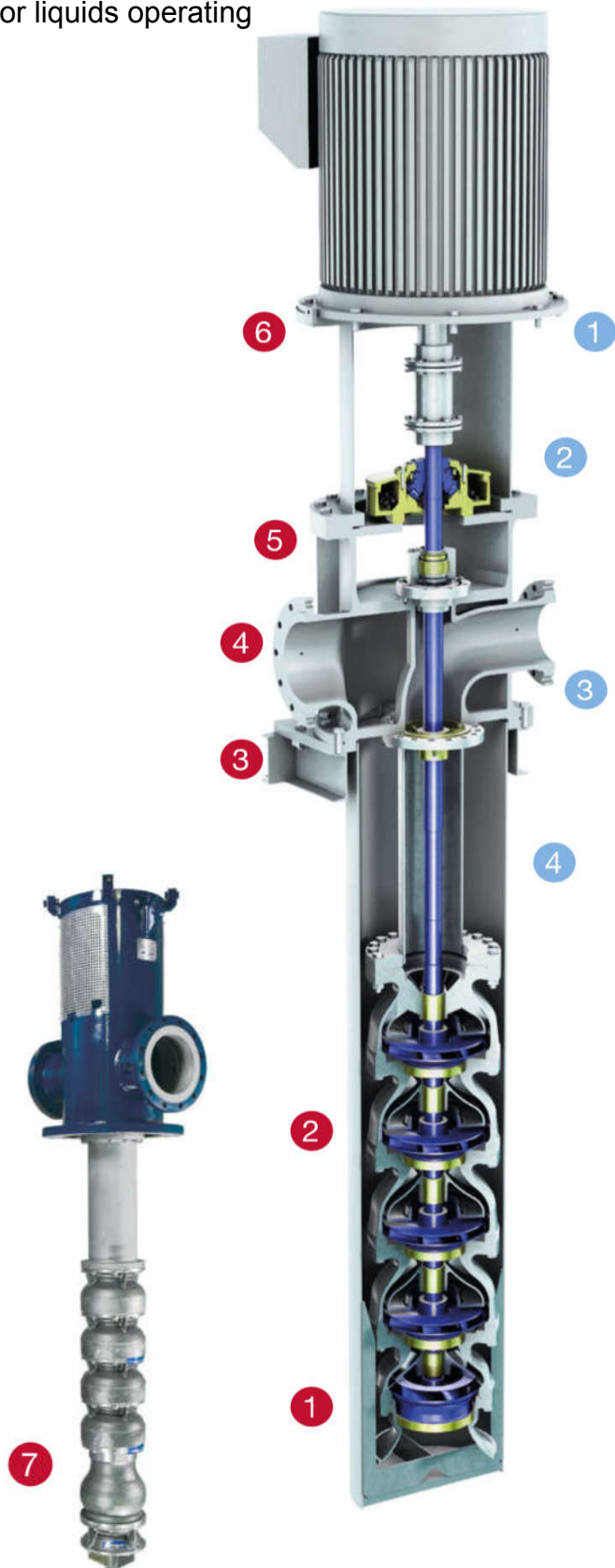
- Accommodates ISO 21049 (API 682) cartridge type mechanical seals

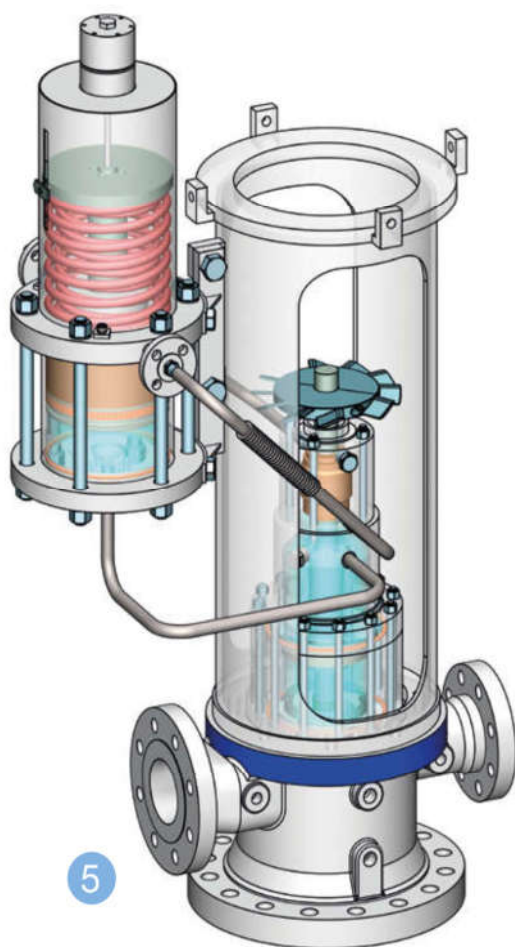
6 Rigid adjustable spacer coupling

- Simple mechanical seal maintenance and rotor lift adjustment

7 Construction

- VS1 for sump or tank; VS6 with suction can to make its own NPSHa for high vapor pressure fluids





Optional Features and Benefits

1 Driver stand

- Discharge head and driver stand checked for natural frequency coincidence

2 Thrust bearing

- Bearings are designed to meet ISO 13709 (API 610) requirements to avoid overheating
- Optional fan, water or pumpage cooled thrust bearing with CS bearing housing and high or extra high thrust bearings

3 Mounting plate

- Optional separate mounting plate to allow for through bolting on main flange when required by specification or higher loading for spiral wound gasket compression

4 Suction can

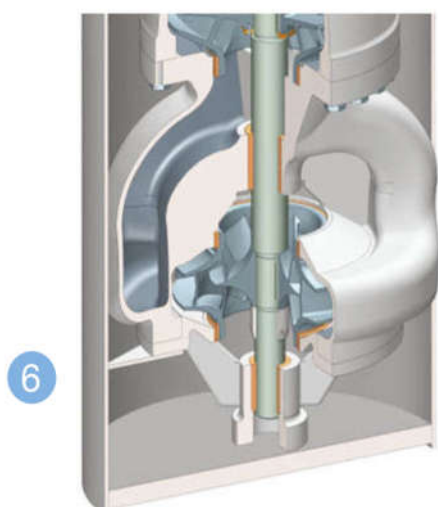
- Specially designed suction cans are available with dished, semi-spherical can bottom, external can drains, below ground suction and many more options

5 J-Unit for cryogenic services

- Isolation chamber separates cold LNG from seals thus allowing the use of standard API 682 dual seals operating near ambient temperature
- Seal oil is held at slightly higher pressure than suction pressure by special Plan 53C. For more information, see separate J-Unit brochure.

6 Double suction impeller for low Net Positive Suction Head (NPSH)

- Provides nominal 30 % reduction in NPSH required with $N_{ss} \leq 11,000$
- Impeller mounted between bearings





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