

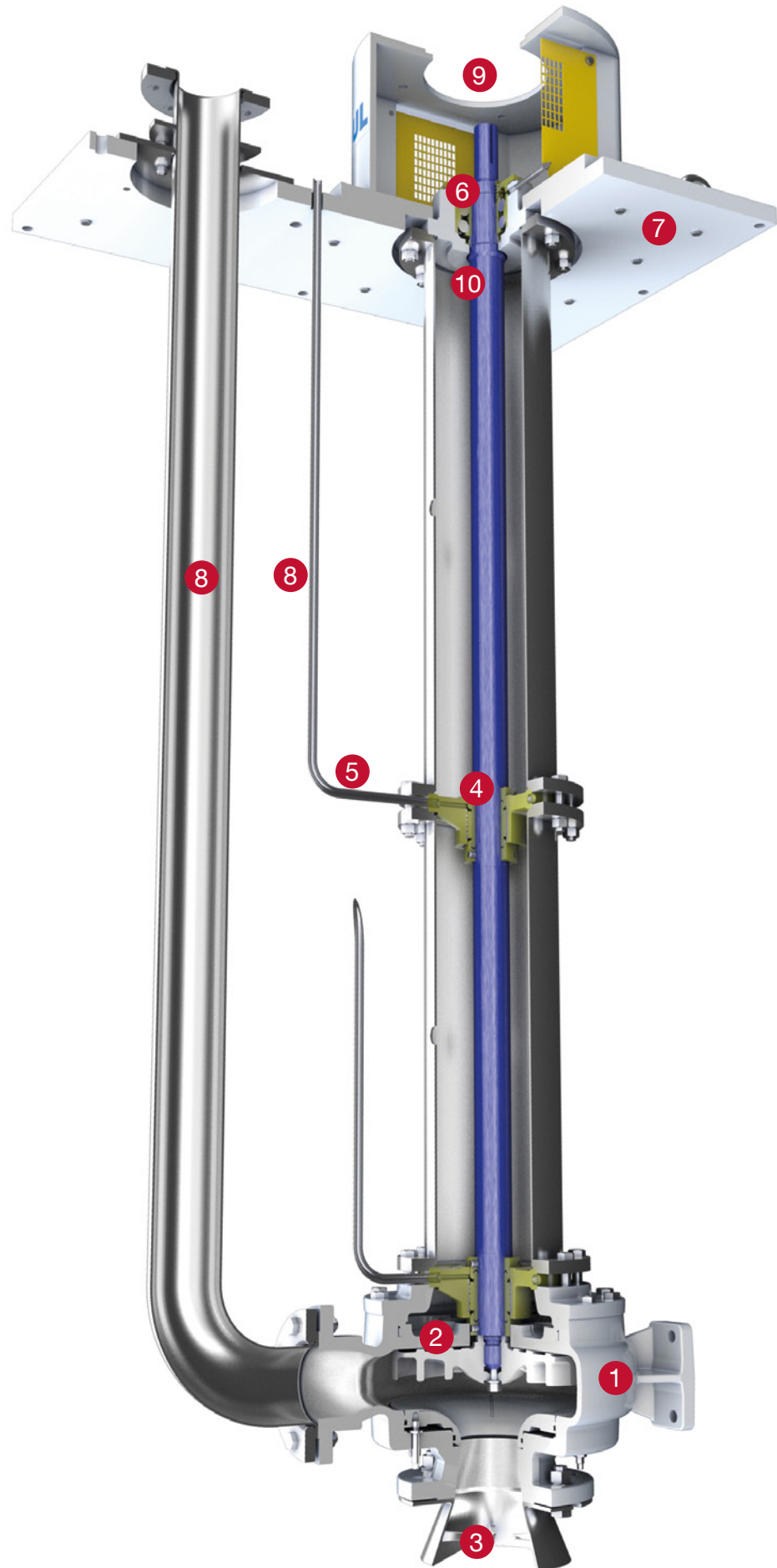
AHLSTAR NV Non-clogging Vertical Line Shaft Slide Bearing Sump Pumps



Main Applications

AHLSTAR NV non-clogging vertical line shaft slide bearing sump pumps are used for:

- liquids containing large solids in deep sump pump applications
- fibrous slurries containing large solids in deep sump pump applications



Features and Benefits

1 NPP/T pump casing, impeller and side plate

- Casing, impeller and side plate are interchangeable with the Sulzer AHLSTAR NPP/T non-clogging process pump
- Minimized spare parts inventory

2 Impeller

- Non-clogging impeller (closed or vortex) with wide open channels and self-cleaning vane profile
- Liquids containing large solids, long fibers, clips or plastics will not plug the impeller
- Non-plugging impeller back vane design prevents plugging caused by longer fibers or plastics
- Pressure-reducing impeller front vanes and self-cleaning cutter grooves prevent fibers from entering the gap between the impeller and side plate and reduce internal flow losses

3 Suction bell

- Stainless steel suction bell with guiding and straining vanes to help prevent clogging

4 Line shaft and bearing design

- One-piece shaft guarantees straightness and easy assembly
- Strong and rigid intermediate support bearing of silicon carbide resists chemicals and abrasives

5 Column bearing lubrication

- Water lubrication as standard
- Grease lubrication as option

6 Thrust bearing

- Heavy-duty roller bearing unit with angular contact ball bearings guarantees long bearing lifetime. Grease lubrication.

7 Mounting plate and driver support

- Epoxy-coated carbon steel mounting plate and motor stool as standard

8 Discharge pipe

- Length adjustment in discharge piping and flexible sealing water hoses for proper mounting

9 Drivers and coupling

- IEC 34-7 with IM code V1 or corresponding Nema vertical motors as standard
- Flexible Rex-Viva coupling is standard. Other coupling types also available

10 Shaft seal

- No shaft seal needed, resulting in more reliable operation

NV Non-clogging Vertical Pumps



Oil & gas



Hydrocarbon processing industry



Power generation



Pulp and paper



General industry



Chemical processing industry



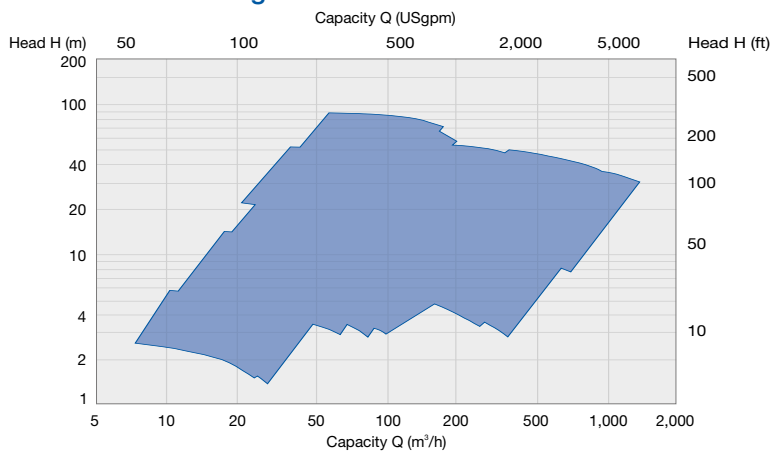
Water

Operating data

50 Hz	Discharge sizes	60 Hz
from 50 mm to 200 mm		from 2 in to 8 in
1,200 m ³ /h	Capacities	5,400 USgpm
up to 85 m	Heads	up to 280 ft
up to 10 bar*	Pressures	up to 150 psi*
up to 95°C	Temperatures	up to 205°F

* Depending on material and size

Performance ranges



Materials

Name of part	Duplex stainless steel design	Cast iron design
Casing	Duplex SS ASTM A890 Grade 3A	Cast Iron ASTM A48 CL 35B
Impeller	Duplex SS ASTM A890 Grade 3A	Duplex SS ASTM A890 Grade 3A
Shaft	Duplex SS 2324	Duplex SS 2324
Side plate	Duplex SS ASTM A890 Grade 3A	Duplex SS ASTM A890 Grade 3A
Casing cover	Duplex SS ASTM A890 Grade 3A	Cast Iron ASTM A48 CL 35B

Other materials can be delivered on request.

We Do What We Say

Customer partnership

- We are **reliable partners**
- We provide a **high level of service**
- We **make our customers more competitive**



Committed people

- We drive **accountability**
- We are **open and transparent**
- We are **team players**



Operational excellence

- We **focus on results**
- We take **initiative** and work within **established processes**
- We **act safely**



A Global Specialist at Your Doorstep

Sulzer serves clients worldwide through a network of over 150 production and service sites and has a strong footprint in emerging markets.





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