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**SULZER**

Sulzer Pumps

## JTS Standard Vertical Turbine Pumps



The Heart of Your Process

# Sulzer Pumps

Sulzer Pumps is a world leader in reliable products and innovative pumping solutions. Our advanced research and development, detailed process and application knowledge together with a comprehensive understanding of market demands keeps us consistently at the leading edge of technical development. Our global network of modern manufacturing and packaging facilities together with sales representatives located close to major markets provide fast responses to customer needs.



Sulzer Pumps Houston manufacturing site

Sulzer Pumps has a long history of providing innovative pumping solutions to business partners in the following industries:

- q . HK @ MC & @ R
- q 'XCQNB@QANM /QNBDRRHM F
- q /TKO @ MC /@ODQ
- q /NVDQ &DMDQ@SHNM
- q &DMDQ@K (MCTRSQX
- q "GDLHB@K /QNBDRR (MCTRSQX
- q 6@SDQ @MC 6@RSDV@SDQ

## \$SSOLF DWLRQ .QRZOHGJH IRU %HWWHU

The vertical turbine pump is ideal for agricultural pumping, municipal and plant water supply, drainage, power plant service, petrochemical applications, high pressure pumping and other industrial uses of all types.

Vertical turbine pumps are typically used wherever a liquid needs to be pumped upward from ground water tables (deep well pumps), manmade underground storage (caverns) or open bodies of liquid such as oceans, rivers, lakes, cooling ponds, tanks and sumps.

Vertical turbine pumps are also used in inline applications such as

### Advantages of JTS

- q , HMHLTL TRD NE kNN
- q 3GD -/2' @U@HK@AK
- KNVDRS KDUDK SN R
- requirements of the pump.
- q - N OQHLHM F QDP THC
- bowl assembly is submerged in
- SGD kTHC ADHMF OTL
- q 3GD UDQSHB@K STQ
- satiate and adaptable in terms of
- both location and pump length.





- 76 'HVLJQ )HDWXUHV DQG %HQHðWV

**Shaft Seal**

O@BJDC RSTejMF ANW HR OQNUHCDC  
for reliable sealing and simple  
maintenance. Optional cartridge  
type mechanical seal available.

**Upper Head Shaft**

Provided for ease of installation and  
adjustable pump setting with verti-  
cal hollow shaft motor.

**Discharge Head**

The discharge head provides an  
above ground connection to the  
customer's pipe work. The integral  
driver stand allows easy access to  
removable packing/seal box and  
coupling.

&ROXPQ \$VVHPEO\  
"NKTLM OHODR @QD SGQD@CDC TO SN  
LL t LL @MC  
LL t @MC t BNKTLMR @QD  
k@MFDC +HMD RG@ESR @QD BNMMDBSDC  
AX SGQD@CDC BNTOKHMFRI@QDMF  
retainers and line shaft bearings are  
replaceable.

**Column Adapter**

The adapter provides true con-  
nectivity of the column pipe to  
the bowls to suit various threaded  
column sizes.

**Impellers**

(LODKKDQR @QD BKNRDC L@CD NE RS@HM-  
less steel for versatility, supplied  
with a replaceable wear ring as  
RS@MC@QC "NKKDS BNMRSQTBSHNM  
mm / 18" pumps) or key and split  
ring (510 mm / 20" pumps).

**Bowls**

"@RS HQNM ANVK HMSDQHNM  
as a standard to reduce friction and  
HMBQD@RD DEjBHDMBX !NV  
plied with a replaceable wear ring.

**Bowl Bearings**

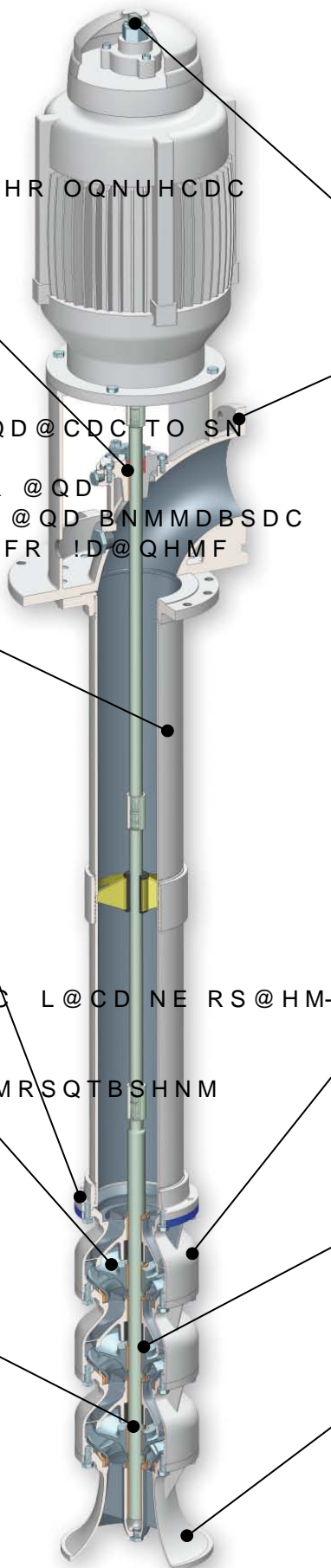
!NVKR @QD jSSDC VHSG @  
bronze bearing or dual bronze and  
rubber bearings.

**Pump Shaft**

The pump shaft design is modular  
or "size driven" by the number of  
stages. Shafts are sized individu-  
ally for each installation. The pump  
shaft is precision machined and  
sized for application thrust and  
torque. The shaft is provided with a  
turndown to match line shaft diam-  
eter as necessary.

**Suction Bell**

All suction bell sizes include  
anti-vortex ribs and a tail bearing  
ATRGHMF !DKKR @QD RTOC  
a replaceable wear ring. These  
combined features make the pump  
kTRG LNQD DEjBHDMS



- 7 6 2 S W L R Q D O ) H D W X U H V D Q G % H Q H ð W V

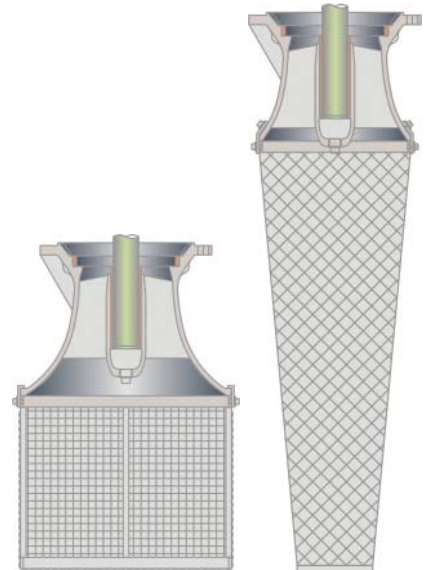
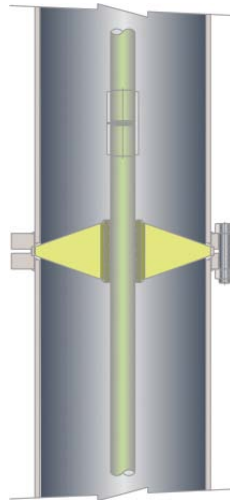
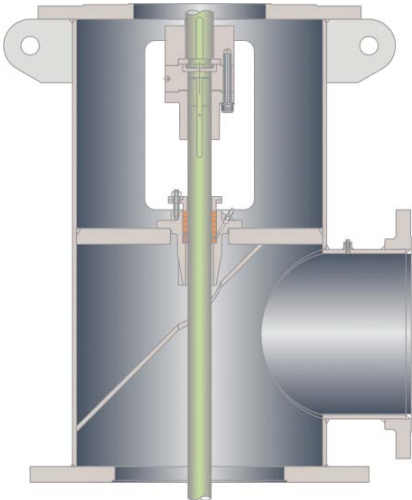
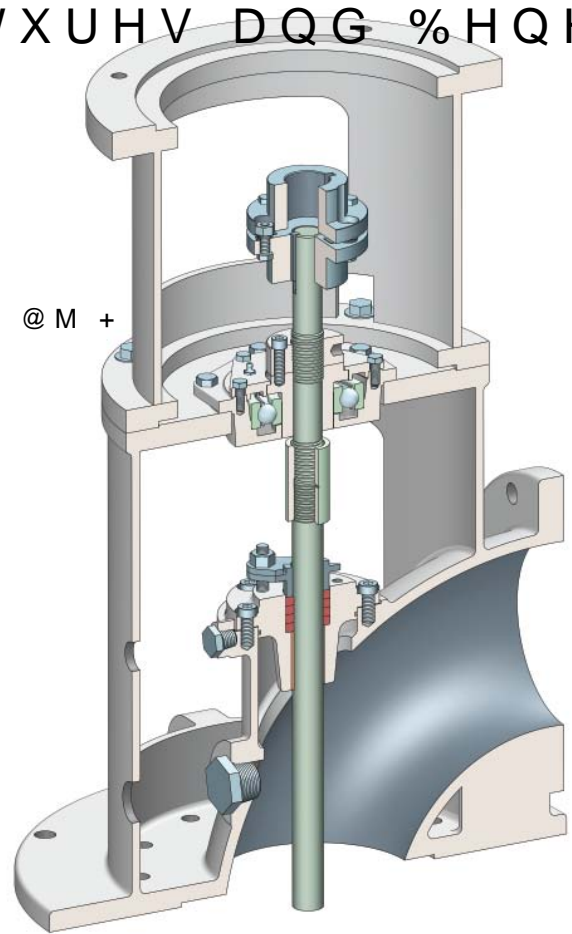
**Thrust Bearing and Flexible Coupling**

The thrust bearing assemblies are available on pumps for motors with limited thrust carrying capabilities. As a

L H M H L T L S G D X @ Q D C D R H F M D C E N Q @ M +  
A D @ Q H M F K H E D N E G N T Q R

**Driver Stand**

Optional feature required with the thrust bearing and some vertical solid shaft/ drive coupling combinations.



**Fabricated Discharge Head**

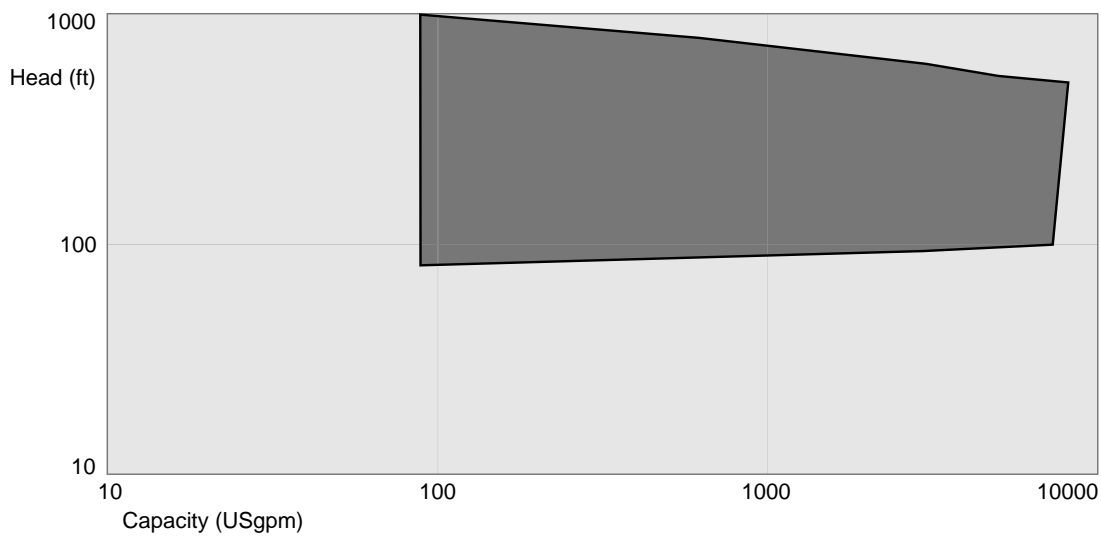
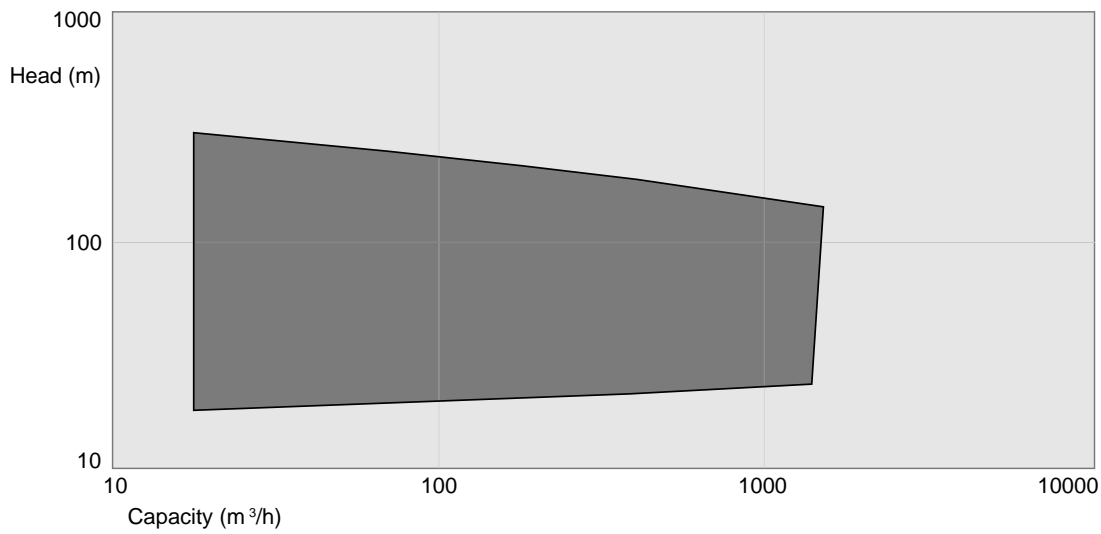
) O D Q J H G & R O X P Q \$ V V S P a n e s

% @ A Q H B @ S D C C H R B G @ S @ M G @ Q C R E N Q D R H Y D R @ R J D I S @ M C B N M D R S Q @ H M  
@ U @ H K @ A K D E N Q @ K K @ R H Y D R V H S G t k @ M F @ H a k @ H K i n D g a @ R i z e @ S t e e l .  
Q @ S H M F R N E n N Q option for all other sizes.

**Sole plate**

" @ R S H Q N M R N K D O K @ S D R @ Q D @ U @ H K @ A K D  
H M O Q D C D S D Q L H M D C R H Y D R S N j S D @ B G  
discharge head.

# JTS Performance Ranges



## Operating Data

JTS operating data			
Pump sizes (bowl diameter)	180 to 510 mm	7 to 20 inches	
" @ O @ B H S H D R	S N /h L	100 to 8,000 USgpm	
' D @ C R	T O S N L	T O S N	E D D S
/ Q D R R T Q D R	T O S N A @ Q	T O S N	O R H
3 D L O D Q @ S T Q D R	" S N   "	% S N	%

# Maintaining and Improving Pump Performance

## Sulzer Pumps –

### Customer Support Services

The continuous availability and high operating performance of pumps is the key target for our customer support service organization.

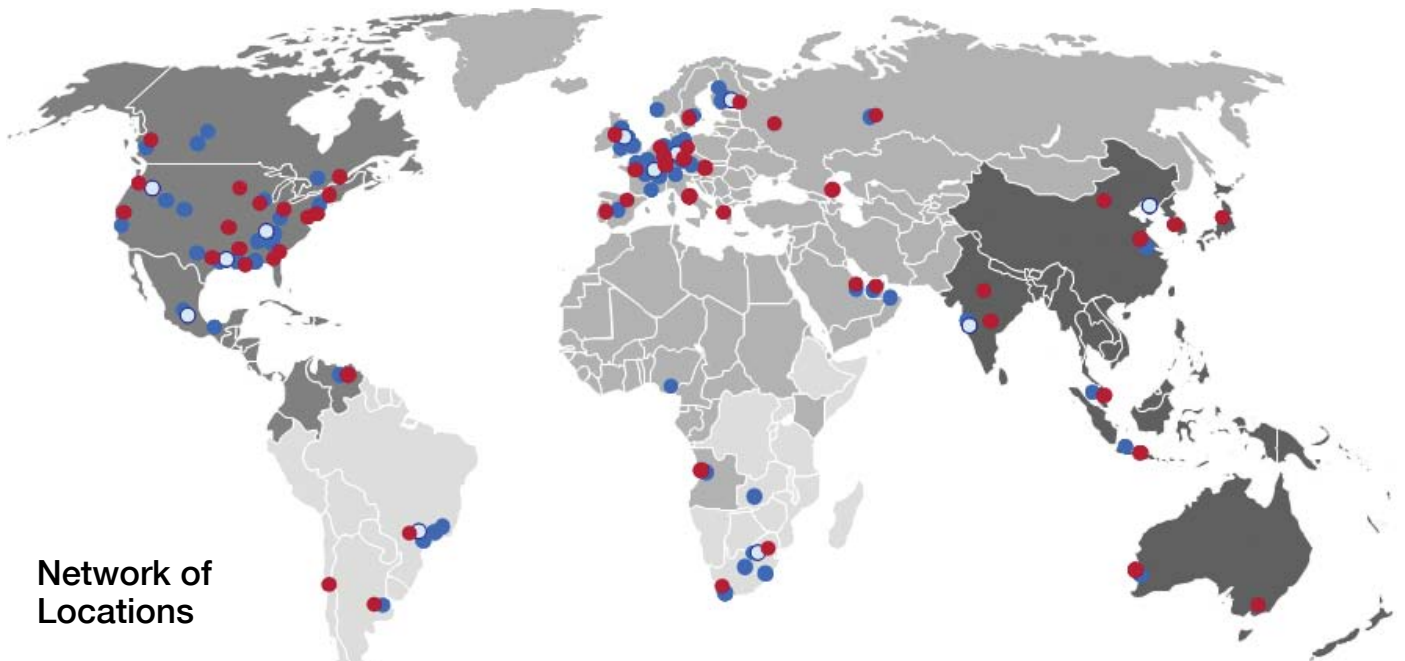
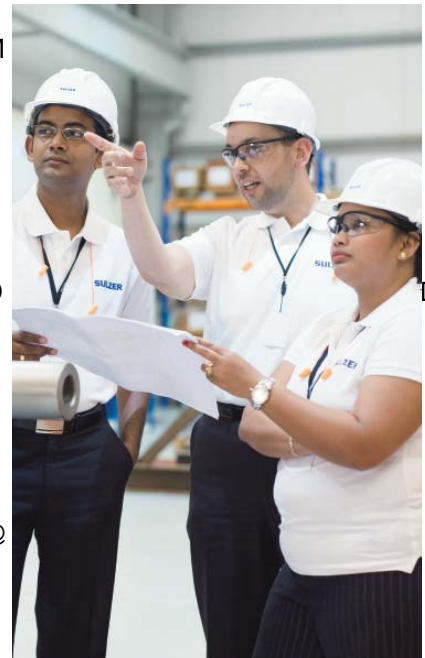
Through our highly experienced personnel and application knowledge, we provide a full range of innovative service solutions to our customers to keep their pumps running including:

- q 2 O @ Q D / @ Q S R
- q % H D K C 2 D Q U H B D R
- q 1 D O @ H Q 2 D Q U H B D R
- q 1 D S Q N j S R
- q , @ H M S D M @ M B D F Q D
- q . O D Q @ S H N M F Q D D L D M S R

) O H [ L E L O L W \

6 H S G R D Q U H B D R Q @ M

supplying a spare part to operating the pump under contract, we are uniquely placed to make your process run smoother. A dedicated team of our service specialists based at either our manufacturing E @ B H K H S H D R N Q N M D centers located around the world is dedicated to maintaining the performance of our customers' pumps and associated equipment. This service is not just limited to Sulzer products, all the pumps our customers use are supported by Sulzer Pumps.



## Network of Locations

- # H U H R H N M @ K ' D @ C P T @ Q S D Q R
- , @ M T E @ B S T Q H M F % @ B H K H S X
- " T R S N L D Q 2 T O O N Q S 2 D Q U H B D " D M S D Q " 2 2
- 2 @ K D R . E j B D

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