

motralec

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SULZER

Sulzer Pumps

SJD Vertical Multistage Can Pumps ISO 13709 (API 610) for Process Applications



The Heart of Your Process

Sulzer Pumps

Sulzer Pumps is a leading global supplier of reliable products and innovative pumping solutions for end users. Our active 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 representatives located close to major markets provide fast responses to customer needs.



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 /QNBDRRHMF
- q /TKO @ MC /@ODQ
- q /NVDQ &DMDQ@SHNM
- q &DMDQ@K (MCTRSQX
- q "GDLHB@K /QNBDRR (MCTRSQX
- q 6@SDQ @MC 6@RSDV@SDQ

Extensive Product Range

Vertically suspended pumps are used in many applications where mounting of the driver and discharge piping is well above the liquid level. They are mounted in suction cans or suction tanks, VGDQD @U@HK@AKD -/2' QDPHQDLDM SR NE kTHC SGD @LNTMS NE kTHC are met by simply adjusting the length of the pump and can. Ad-U@MS@FDR @QD LHM usage and ideal operating conditions provided within the normal operating envelope.

Applications

Sulzer SJD process pumps are available, either due to system constraints or liquids operating near their vapor pressure. Typical applications include... to high pressure applications. The design of the pump has evolved... and includes technology which is now exclusive to Sulzer.



6 - ' 'HVLJQ)HDWXUHV DQG %HQHđWV

Driver

Drivers to meet a variety of cus-
SNLDQ @MC HMCTRSQX RODBHjB@SHNMR

Jack Bolts

Driver jack bolts are standard.

Spacer Coupling

Rigid adjustable spacer couplings
for simple mechanical seal mainte-
nance and rotor lift adjustment.

Shaft

.MD OHDBD RG@ES QDPHQDC AX (2.
TO SN @ANTS L EDDS
22 HR RS@MC@QC VHSG @ U@QHDSX NE
optional materials.

Suction Can / Column Pipe

O-ring sealed suction can fabri-
cated with full penetration welds
and swirl brake for uniform suction
kNV SN jQRS RS@FD .OSHNM@K N QHMF
sealed column and bowl joints.

Can Drain

" @M CQ@HM HR @SS@BGDC SN OTLOHMF
unit and has only one penetration
at the discharge head. Reduces
chance of external drain damage.

First Stage Impeller

,NTMSDC ADSVDDM AD@QHMF NM @KK
but smaller sizes where shaft is a
large percentage of impeller eye
area and impeller is less than 150
LL HMBGDR CH@LDSDQ -RR HR
NQ KDRR 'HFG -RR HR NO-
tional.

Discharge Head

" @RS CHRBG@QFD GD@C V
rate motor stand for rigidity. Other
BNMjFTQ@SHNMR @QD OQN
fabricated discharge heads.

Shaft Sealing

2D@K BG@LADQR LDDS (2.
/(CHLDMRHNM QDPHQDC
SN @BBNLLNC@SD (2.
B@QSQHCDF SXOD LDBG
seals.

Column Bearings

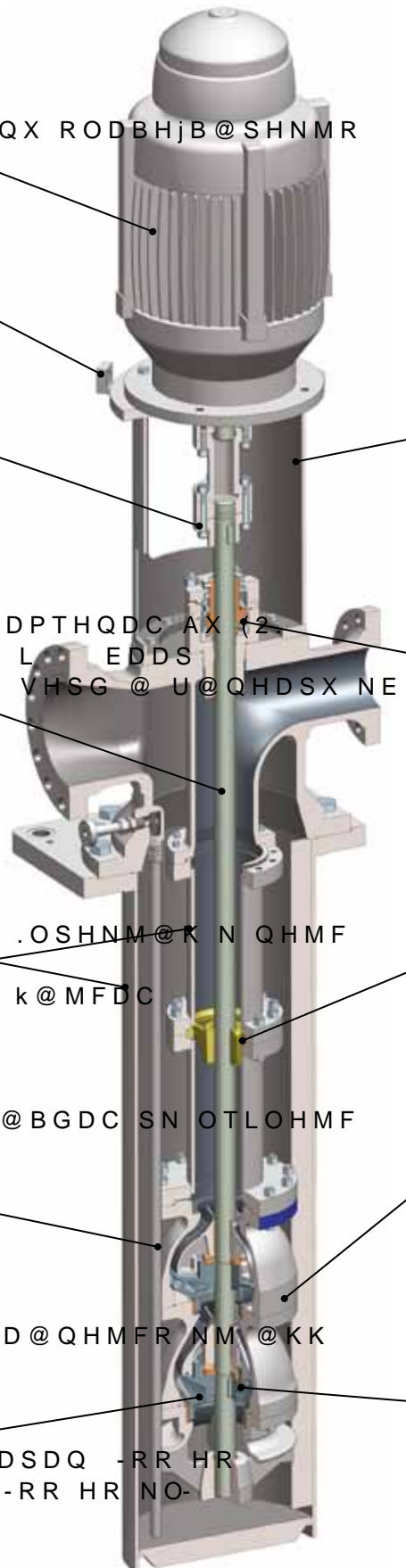
On 14" column and smaller, col-
umn bearings are mounted in a
reversible bearing spider that may
AD kHOODC SN QTM SGD AD
@ CHEEDQDMS RG@ES RTQE
bearing spiders are optional and
are standard on > 14" column.

Bowl Assembly

%K@MFDC ANVKR @QD RS@
rings on the impeller are standard
with bowl rings optional.

Impellers

(LODKKDQR @QD GDKC @MO
split ring and key design. Thrust
balanced impellers are optional for
reduced thrust bearing load.



Driver Stand

Discharge head and driver stand checked for natural frequency
 BNHMBHCDMBD (MRS@KKDC UHAQ@-SHNM KDUDKR LDDS NQ DWBDDC (2. 13709 requirements.

Thrust Bearing

Bearings are designed to meet (2. QDPHQDLDMR SN avoid overheating. Oil level is kept below the bearings to avoid churning and foaming common in other designs. Temperature rise during performance test is measured @MC LDDSR (2. Optional fan, water or pumpage BNNKDC SGQTRS AD@QHMF VHSG "2 bearing housing and high or extra high thrust bearings.

Mounting Plate

Optional separate mounting plate to allow for through bolting on main k@MFD VGDM QDPHQDC AX RODBHjB@SHNM NQ GHFGDQ KN@C- ing for spiral wound gasket compression.

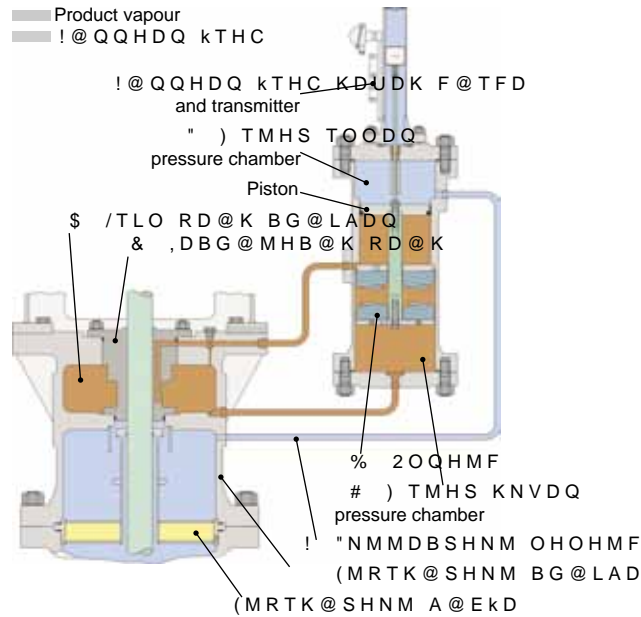
Suction Can

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



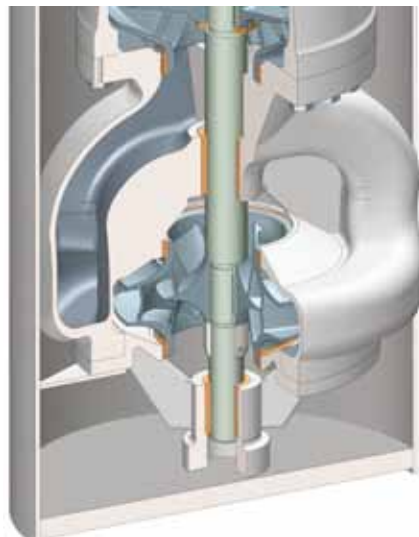
J-Unit for Cryogenic Services

A proven and reliable design to seal the pump shaft on cryogenic applications.

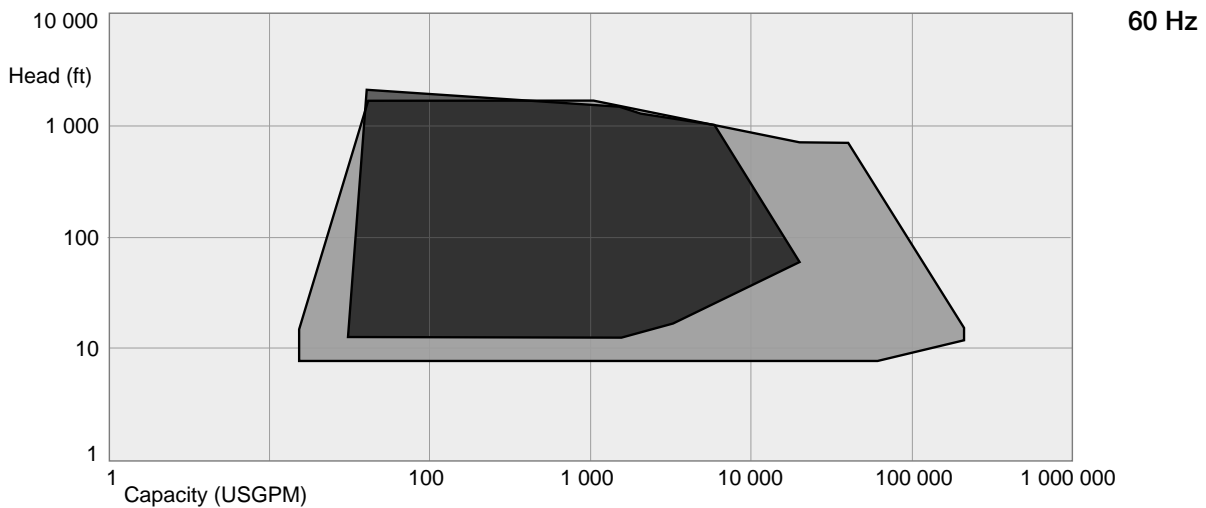
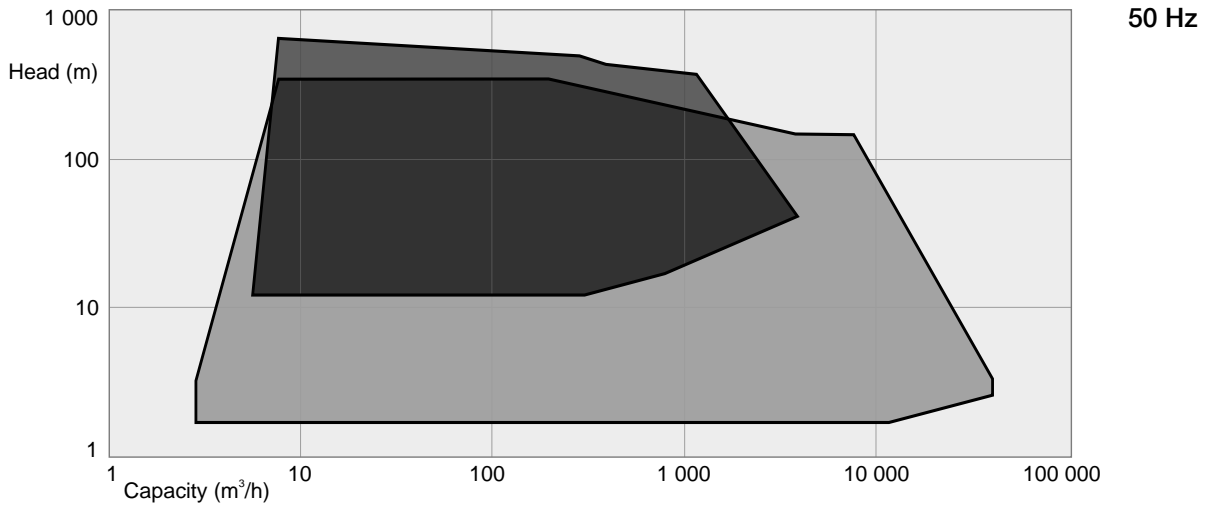


Double Suction Impeller for Low NPSH

/QNUHCDR MNLHM@K QDCTB required with Nss 11,000. (LODKKDQ LNTMSDC ADSVDDM A



SJD Performance Ranges



2) # (2. / (O Q N C T B S Q @ M F D
 Vertical can product range

Operating Data

	50 Hz	60 Hz
" @ O @ B H S X	S N ³/h L	10 to 20,000 USgpm
' D @ C	T O S N L	T O S N E D D S
Pressure	up to 75 bar	up to 1,100 psi
, @ W N O D Q @ S H M F O Q D R R T Q D S N A @ Q		T O S N O R H
3 D L O D Q @ S T Q D	! " S N ! "	! % S N ! %

Sulzer Pumps Customer Support Services

are critical to your operations, you are relying on external service support:

- q RDQUHBD O @ Q S M D
- q 1DKH @ AHKHSX
- q 1DRONMRHUDMDRR
- q 1 @ OHC STQM @ QNT
- q (MMNU @ SHUD 2NKTS

Our service professionals deliver these qualities and more to customers from all industry sectors ranging from spare parts to trouble shooting, we can maintain your rotating equipment and improve your processes.

Service Partner

Our goal is to be your business partner who delivers customized service solutions that improve your operations. Our measure of success is the loyalty of our customers year after year, decade after decade.

Reliability

Reliability depends on the longevity of replacement parts and the quality of repair of damaged or worn equipment. You can rely on our expertise to deliver and on our commitment to service every time.

Sulzer Pumps are known in the industry for their extreme dedication. You can rely on us to stand by you if unexpected problems occur.

Responsiveness

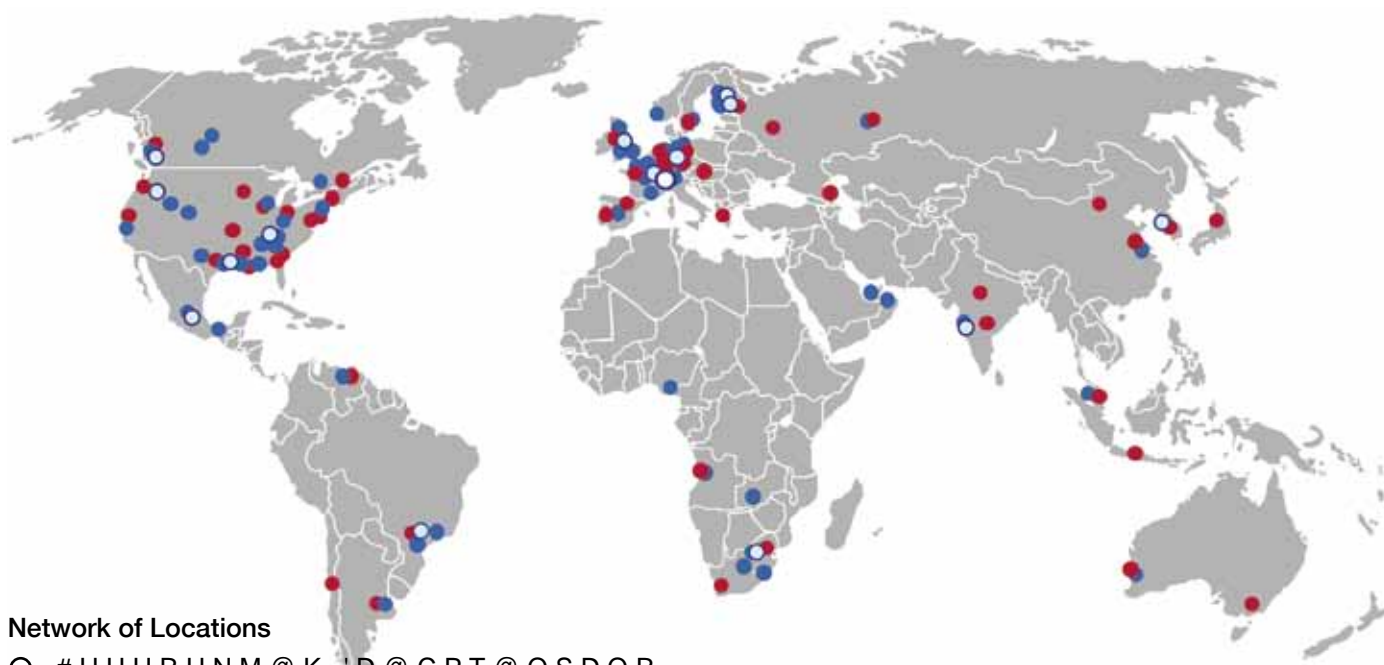
Our service professionals understand your needs, requirements and priorities – we are re-committed to deliver you the best possible solutions for your business. You need us 365 days per year.

Rapid Turn-around

You expect to receive quotations quickly and have your equipment repaired rapidly to minimize disruption to your operations. You can rely on our commitment to service every time.

Innovative Solutions

Sulzer Pumps is renowned in the industry for its innovative technology and application know-how. We can help you evaluate your installation and achieve increased throughput, lift capacity and reduce maintenance costs by replacing existing hydraulics with state of the art Sulzer Pumps designs.



Network of Locations

- #HUHRHNM@K 'D@CPT@QSDQR
- ,@MTE@BSTQHMF %@BHKHSX
- "TRSNLDQ 2TOONQS 2DQUHBD "DMSDQ "22
- 2@KDR .EjBD

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