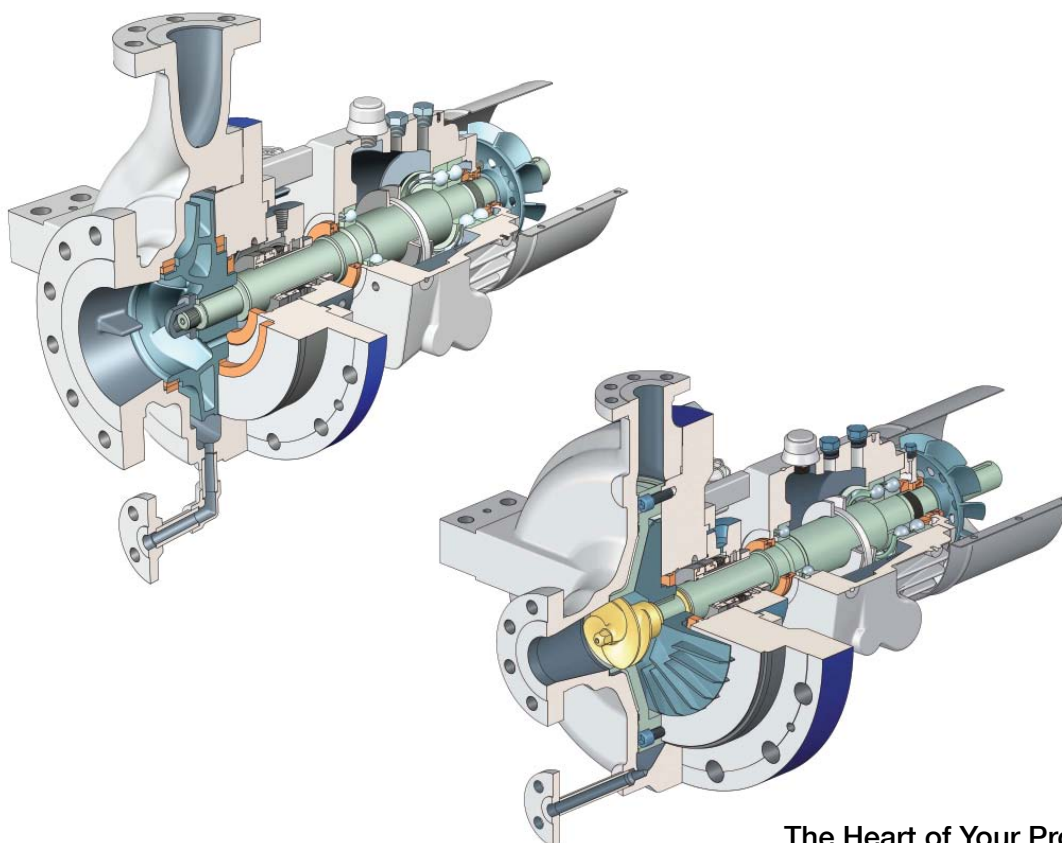


SULZER

Sulzer Pumps

OHH and OHHL Process Pumps ISO 13709 (API 610)



The Heart of Your Process

motralec

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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 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

OHH/OHHL Global Manufacturing Facilities



Navi Mumbai, India



Cuautitlan Izcalli, Mexico

\$SSOLF DWLRQ .QRZOHGJH IRU %HWWHU

'XCQNB@QANM DWSQ@BQNBDRRDKIMMCMCTRSQ
 QDjMDQHDr ODSQNB Gdr Business sekentMSTn @MC
 gas plants operate sophisticated Sulzer Pumps. Following industry
 production processes requiring practice, we further subdivide the
 QDKH@AKD OTLOHMF Region into MR "NM-
 tinuous product innovations such q 2XMETDKR
 as our improved hydraulic per q 1DjMHMF
 formances on oil production and q &@R /QNBDRRHMF
 process pumps are helping the q /DSQNBGDLHB@KR
 industry improve its operational q -HSQNFDMNTR %DQS
 DEjBHDMBX

All our pumps are engineered in line with the latest standards issued
 AX /((2. @MC -2(HM NQCDQ SN
 ensure reliable and safe opera-
 SHNM @S XNTQ RHSD 3GD 'XCQNB@QANM

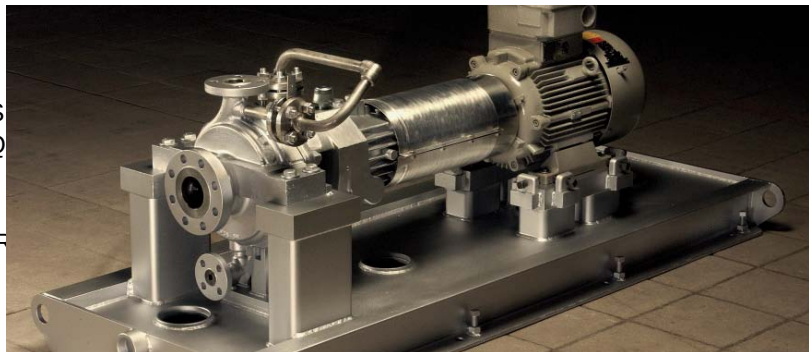


Extensive Product Range

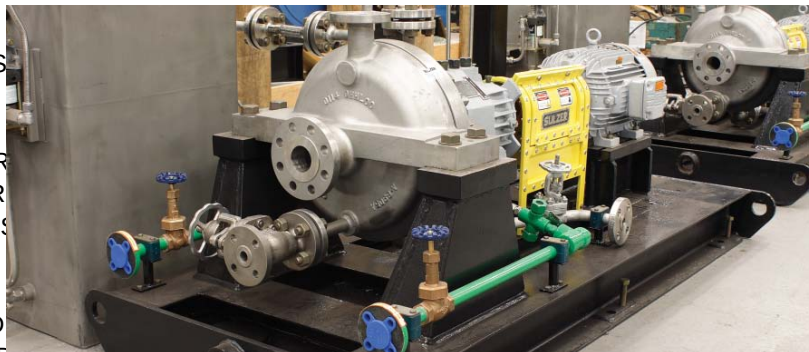
Sulzer Pumps provides a broad
Q @ MFD NE (2. /(
trifugal pumps for the demanding
@ OOKHB @ SHNMR NE S
/ QNBDRRHMF (MCTRSQ

3GD BNMUDMSHNM@K
NUDQ GXCQ@TKHBF
CHRBG@QFD SN LL
t SN t @MC ONVDQ
B@M DWBDDC NMD ,6
CDRHFMDC SN (2.
VHSG (2. /(
type mechanical seals.

, @QJDS MDDCR @MC S
cover all hydraulic requirements
prompted the development of the
.''+ NQ KNV KNV UDQR
.'' 3GD .''+ TSHKHYDR
DWSQ@ GD@UX RG@ES
EQ@LD @R SGD .'' .M
end under the impeller is modi-
jDC SN @BBNLLNC@SD
TMHPTD KNV KNV HLODKKDQ CDRHFM



2++ SXPS FRPSOHWHO\ DVVHP



2++/ SXPS UHGD\ IRU VKLSPHQW DW 6XO]H

(QJLQH HHUG IRU \$SSOLF DWLRQ)OH[LEL

3GD .'' HR @M NUDQG T3GD GNQHR CDRHFMD
zontal, centerline mounted, single
stage, radially split process pump.
3GD .'' OQNBD RR OTL
the latest in mechanical seals tech-
nology and is used in heavy-duty
QDjMDQX RDQUHBDR
plants, gas processing and offshore
services. The mechanical seals
@MC @TWHKH@QHDR
compliance with the requirements
NE (2. /(
3GD KTHCR OTLODC H
water, gasoline, light hydrocarbons,
and vacuum bottoms. The custom-
DQR ADMDjS EQNL SG
struction, the versatility in applica-
tion, and the long reliable service
life.

@M NOSHLTL RNKTSHN
and higher heads. Some applica-
tions require a horizontal direct
drive pump capable of delivering
L G 42FOL B@O@BKIS X@MRS@MC@QC (2.
GDSQ@BN DLH@K ES "TLFSSNDQH@K BNLAHM@SH
DQR QDP THQD KNV -/2'@U@GHK@DA KDD SQ NL 2 SN #
HMF (2. /(
Revers@OKHDC @QD HM ETKK
3GD .''+ TSHKHYDR @ OQDBHRHNM B@RS
semi-open, multi-vaned impeller
that provides more head per
mm of impeller diameter than does
a conventional enclosed impeller.
The impeller design provides
FDNLDSQHB KDWHAHKHSX SN @CITRS SGD
ADRS DEjBHDMBX KNV VGHKD OQNUHCHMF
DWBDKKDMS DEjBHDMBX @MC @RS@AKD

performance. CD larger
Models and sizes are available for
-/2' @OOKHB @SHNMR
Materials
@MC @RS@MC@QC (2.
ES "TLFSSNDQH@K BNLAHM@SH
-/2'@U@GHK@DA KDD SQ NL 2 SN #
UH@Q@S@SNM
@MC @RS@AKD

2++ 'HVLJQ)HDWXUHV DQG %HQHðWV

Casing Feet and Baseplate

q"DMSDQKHMD LNTMSDC OTLQOEDRHF @MTC@QX BNLON-
A@RDOK@SD CDRHFMD C SN MMSR2CDRHFMD C ODQ (2.
/(MNYKDK KN@CR /(SN NE 432 W
q W /(MNYKDK KN@C NOSHND RSHHKE@AKSNQD LL
pending on size HM BNQQNRHNM @KKNV@MBD
q -NM FQNTSDC NQ OQD FQNTSDC AK@RNDK@S ENQ K@QFDQ RHYDR
available for motor or steam turbine
q /(CDjMDC A@RDOK@SD CHLDMRHNMR @QD
standard

Impeller

q#XM@LHB@KKX A@K@MBDC HLODKKDQ
q\$MBKNRDC HLODKKDDQR OQNUHCDC ENQ HMBQDQR
DEjBHDMBX
q.OSHNM@K HLODKKDDQR HM LNRS RHYDR ENQ KN
-1/2'Q
q6D@Q QHMF CH@LSDSDQR @MC A@K@MBD CNI
NOSHLHYDC SN L@WHLHYD RD@K @M
q/QNUDM "NJD "QTRGDQ @U@HKC
applications

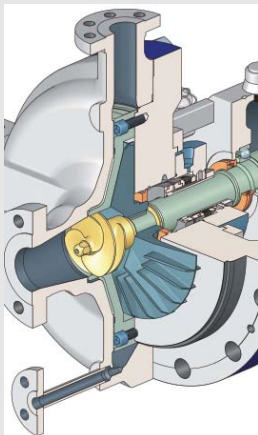
Shaft

q\$WSQ@ GD@UX CTSX K@QFD C
KNV RG@ES CDkDBSHNM @MC KNMT

Case Drain

q2NBjDS VDKCDC k@MFDC CQ@HMR
q!TSS VDKCHMF @KRN @U@HK@AKD
q&TRRDSR NQ AQ@BHM F @U@HK@AK
SNLDQ RODBHjB@SHNMR

2++/ 'HVLJQ)HDWXUHV DQG %HQHðWV



Inducer

q (MCTBDQ @U@HK@AKD NM KE
for improved suction performances

Impeller

q.UDQ CHEEDQDMS GXCQ@TKHBR @QD @U@HK@AKD @R
standard
q2ODBH@KKX CDRHFMD C OQDBHRHNM P@RS RD WODM
impeller with liberal clearances
q4MHPTD CDRHFM LHMHLHYDR Q@C @MC @K GX-
draulic loads

Diffuser

q/QDBHRHNM L@BGHMDC SN L@SBG @SDC GD@C
@MC KNV VHS GHM SGD NOSHLTL OD PL@MBD Q@MFD
q"NLAHM@SHNM NE HLODKKDQ @MC C TRDQ OQNUHCDC
RS@AKD ' 0 BTQUD

q!@BJE@BDC -2(!
k@MFDR VHSG QDI
q(2. #(- k@MFDR @U
q3NO 2TBSHNM @U@

q2510 MC@QC BNTOKHMF FT@QC LDDSR
HQC RDQQ@SHNMR\$7 @MC
HK@A QD PTHQDLMSR
Kc@S E D Q N S X.O'D NE FT@QCR @QD @U@HK

q %TKKX BNMjMDC VHSG BNM SQNKKDC BNL
OQDRRHNM @MC LDS@K/ SN LDS@K js

angular contact thrust bearings
VHSG L@BGHMDC AQ@RR E
mounted back-to-back
q#DDO FQNUD A@KK Q@CH
ing with increased clearance as
QDP THQDC AX (2.

q %KDWHAKD CHRJ RO@BDQ
supplied to comply with custom-
DQ @MC (2. QDPTHQDI

q"@QANM RSDDK BNMRSQTB
BNNKHMf jMR ENQ HLOQNL
dissipation

q5@QHDSX NE HMRSQTLDMs
able for condition monitoring

q#HLOKDR @QD OQNUHCDC
ent location when taking vibration
measurements with a portable
instrument

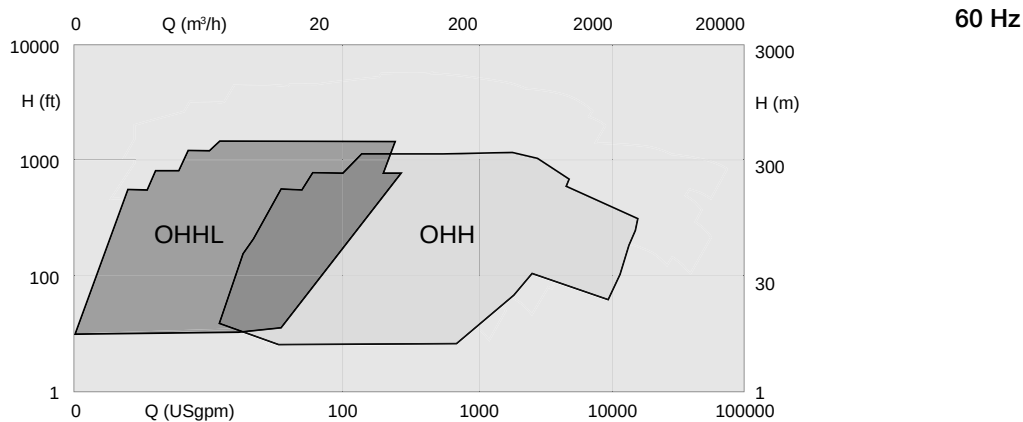
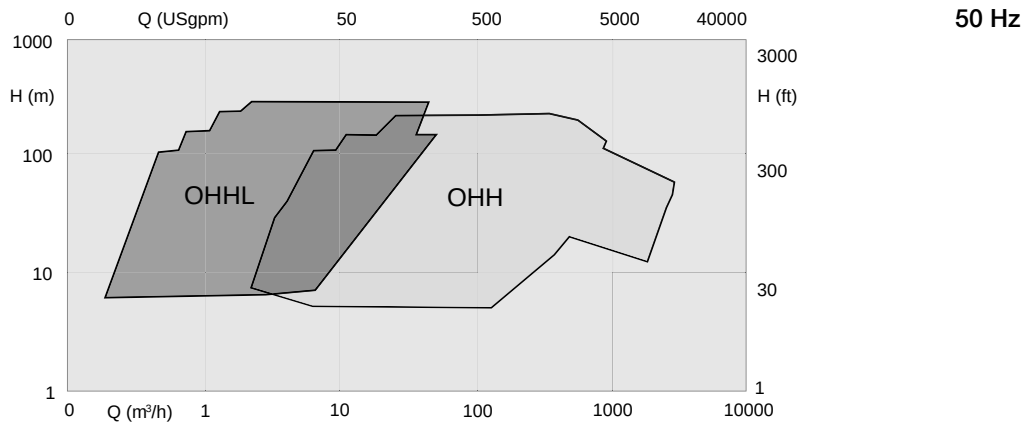
or magnetic type oil seals provided to meet a variety of customer requirements

oil lubrication system utilizes an oil ring mounted within a deep groove retainer that guarantees the oil ring does not become displaced

q 2 S @ M C @ Q C H Y D C C
B N Q C H M F S N (2 .
q % T Q M H R G D C V H S G
O H O H M F O K @ M
seal life
q 2 H M F K D N Q C T @ K E
chanical seals available to meet
all process requirements
q 2 S @ M C @ Q C @ M C B
throat bushing for control of seal
chamber pressure

Q RHYDR NE AD @ QHMF ! QOTRHMF BNTDHF NHK B	uses the lubricant to the rear of
LD SGH NMN @TB S Q @ MFD	each bearing to ensure positive
interchangeability	
K KQ (2 .CDj MDC/ (KHRS NE	lubricant under all conditions.
ENQA KDOS NUDDS SGD L N'NT RHMF BTR S	TOOK HDC VH
operating conditions	tions for purge oil mist or pure oil
Q SNVH MNDH S X CED MD @ C C D	ENQ GHFG
ambient or high product tem-	q .HK L HRS ONQSR @ QD KNB
peratures	outboard side of each bearing
N R D H B KRT @ Q @ MD @ D S D Q @ C S N C D M R Q Q D N V	NRHSHUD NH
ambient or low product tempera-	through each bearing
tures	

OHH and OHHL Performance Ranges



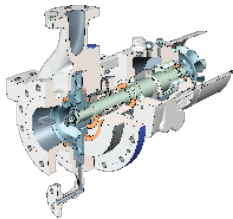
Operating Data

OHH	50 Hz		60 Hz	
/TLO RHYD	SN	LL	SN	HMBGDR
"@O@BHSX	TO SN	G L	TO SN	42FOL
'D@C	TO SN	L	TO SN	ES
/QDRRTQD	TO SN	A@Q	TO SN	ORH
3DLODQ@STQD	" SN	"	" SN	"

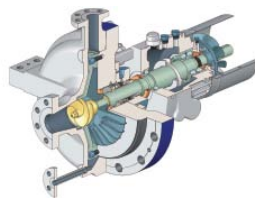
OHHL	50 Hz		60 Hz	
/TLO RHYD	SN	LL	SN	HMBGDR
"@O@BHSX	L G SN	GL	SN	42FOL
'D@C	L SN	L	SN	EDDS
/QDRRTQD	TO SN	A@Q	TO SN	ORH
3DLODQ@STQD	" SN	"	" SN	"

Sulzer Overhung Process Pumps

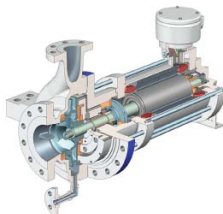
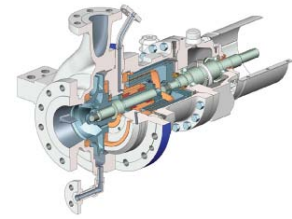
2TKYDQ /TLOR GD@UX CTSX NUDQ
 hung process pump product range
 HR NMD NE SGD OTLO HMCTRSQX R LNRS
 versatile, serving a diverse number
 of applications in several market
 RDFLDMSR , @MX TRDQR G@UD @
 preference for its rugged centerline
 RTOONQS Q@CH@K ROKHS B@RHMF DWSQ@
 heavy shaft and ease of maintenance.



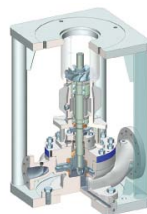
7\SH 2++
 Overhung horizontal centerline
 mounted single stage, radially
 ROKHS (2. /(
 pump. Available with single, dual-
 pressurized and dual un-pressur-
 ized mechanical seals, including
 CQX F@R RD@KR SN SGD K@SDRS (2.
 /(
 2D@K 2S@MC@QC



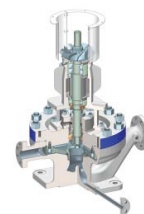
7\SH 2++/
 3GD .''+ HR SGD R@LD 4SHKHDR SGD .'' GXCQ@TK
 CDRHFM VHSG KNV KNO SMOQ@KHB@ENTK KX BNL
 H@QNBDRRC GXCQ@TKHB jR@D@KMD@S K@FCQHUD O
 KNV BNMCHSHNMR DEJBHDMBX L@FCQHUD @MC
 containment offer improved integ-
 rity.



7\SH 2+&
 4SHKHDR SGD .'' GXCQ@TK
 ONMDMSR @MC 'DQLDSHTB@B@S@DC.' OTLO
 motor for the ultimate in sealless
 pump integrity. Fully compliant with
 /(
 3XOD . 'all use the same rugged bearing



7\SH 2+9
 3GD .'' . '5 .''+ @MC . '5+
 NUDQGTMF HMKHMD OT@MC . (2. HMKHMD B@QSQ
 pumps are designed for pumping type mechanical seals for durability
 applications covering a myriad of @MC L@WHLTL HMSDQBG@M
 OQNCTBDC NQ OQNBDRR kTHCR RTBG
 as produced water booster, crude
 NHK ANNRSDQ OQNO@MD SQ@MREDQ QDKTW
 gas oil, etc.





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Pumps iso Sulzer OHH OHHL



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