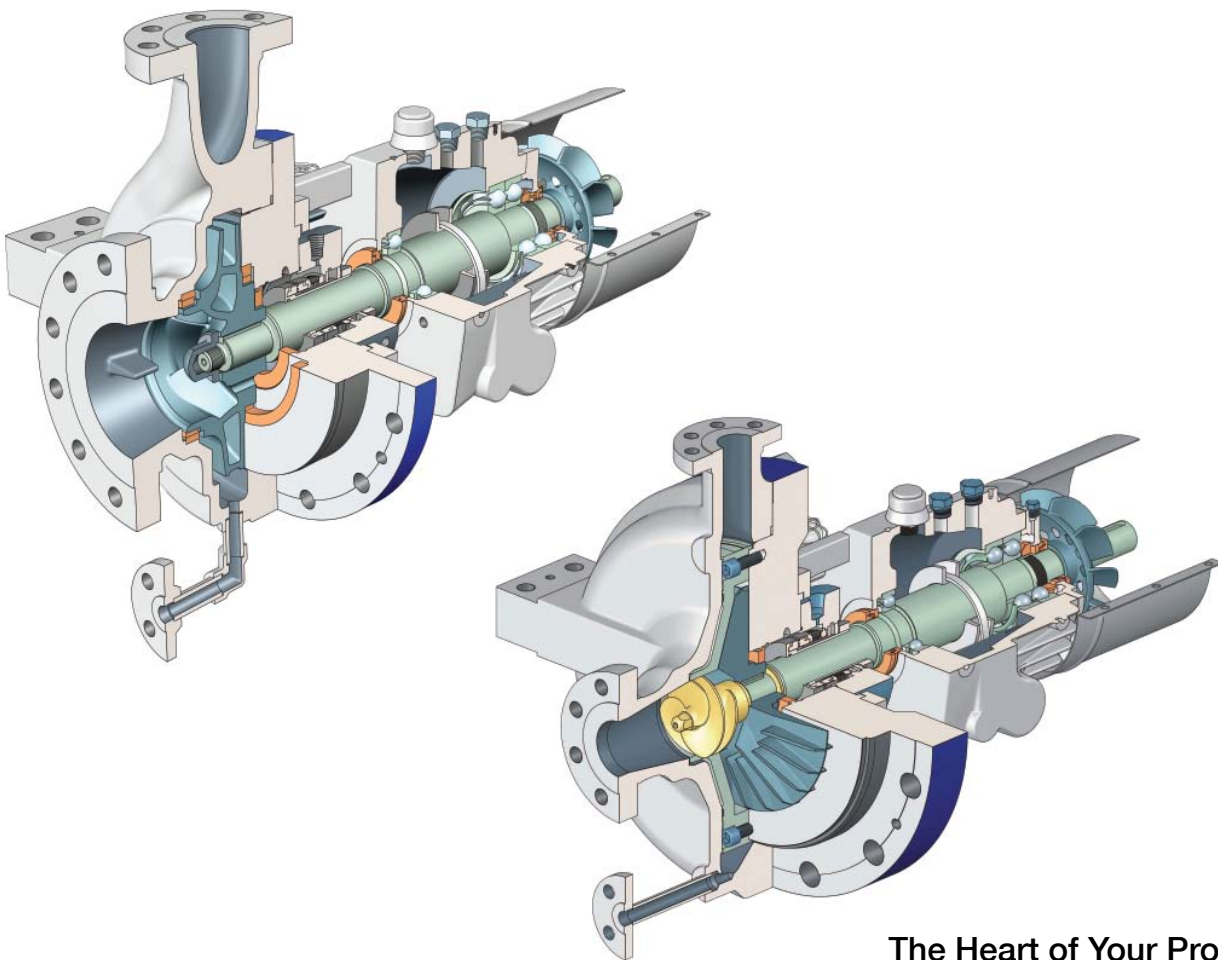


### OHH and OHHL Process Pumps ISO 13709 (API 610)



The Heart of Your Process

**motralec**

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[www.motralec.com](http://www.motralec.com)

# 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@/QNBDRRHMF (MCTRSQX  
 QDjMDQHDR ODSQNB GDLHB@K (MCTRSQX @MC  
 gas plants operate sophisticated production processes requiring QDKH@AKD OTLOHMF Sulzer Pumps. Following industry practice, we further subdivide the RQKH@AKD OTLOHMF "NM-  
 continuous product innovations such as our improved hydraulic per- q 2XMETDKR  
 formances on oil production and q 1DjMHMF  
 process pumps are helping the q &@R /QNBDRRHMF  
 industry improve its operational q /DSQNBGDLHB@KR  
 DEjBHDMBX q -HSQNFDMNTR %DQS  
 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





# 2++ 'HVLJQ )HDWXUHV DQG %HQHõWV

## Casing Feet and Baseplate

q"DMSDQKHMD LNTMSDC OTLQOQB@R@MB @MTC@QX BNLON-  
 A@RDOK@SD CDRHFMD C SN MMSR2CDRHFMD ODQ (2.  
 /( MNYKDN@CR /( SN NE 432 W  
 q W /( MNYKDN@C NOSHN@RSU@MKE@AKSNQD LL  
 pending on size HM BNQQNRHNM @KKNV@MBD  
 q-NM FQNTSDC NQ OQD FQNT\$NCAK@RDN@K@S@ENQ K@QFDQ RHYDR  
 available for motor or steam turbine  
 q /( CDjMDC A@RDOK@SD CHLDMRHNM @QD  
 standard

## Impeller

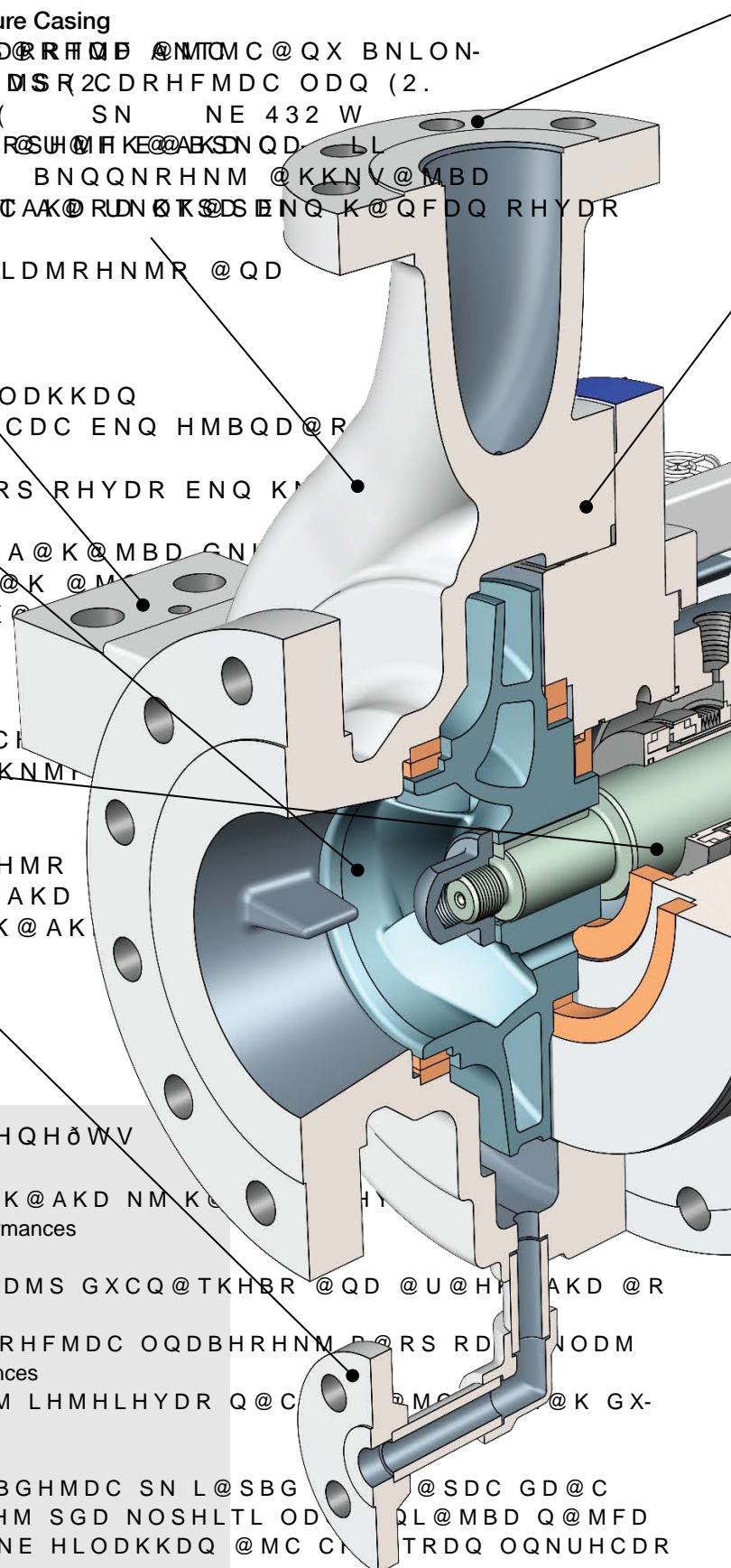
q#XM@LHB@KKX A@K@MBDC HLODKKDQ  
 q\$MBKNRDC HLODKKDQR OQNUHCDC ENQ HMBQD@R  
 DEjBHDMBX  
 q.OSHNM@K HLODKKDQR HM LNRS RHYDR ENQ KN  
 -/2'Q  
 q6D@Q QHMF CH@LDSQR @MC A@K@MBD CNI  
 NOSHLHYDC SN L@WHLHYD RD@K @M  
 q/QNUDM "NJD "QTRGDQ @U@HK@AKD  
 applications

## Shaft

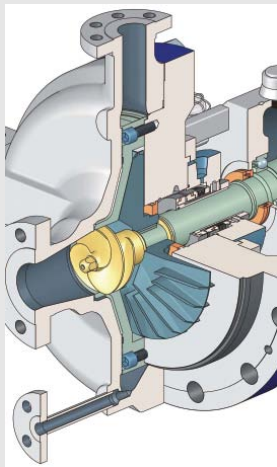
q\$WSQ@ GD@UX CTSX K@QFD C  
 KNV RG@ES CDkDBSHNM @MC KNM

## Case Drain

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



# 2++/ 'HVLJQ )HDWXUHV DQG %HQHõWV



## Inducer

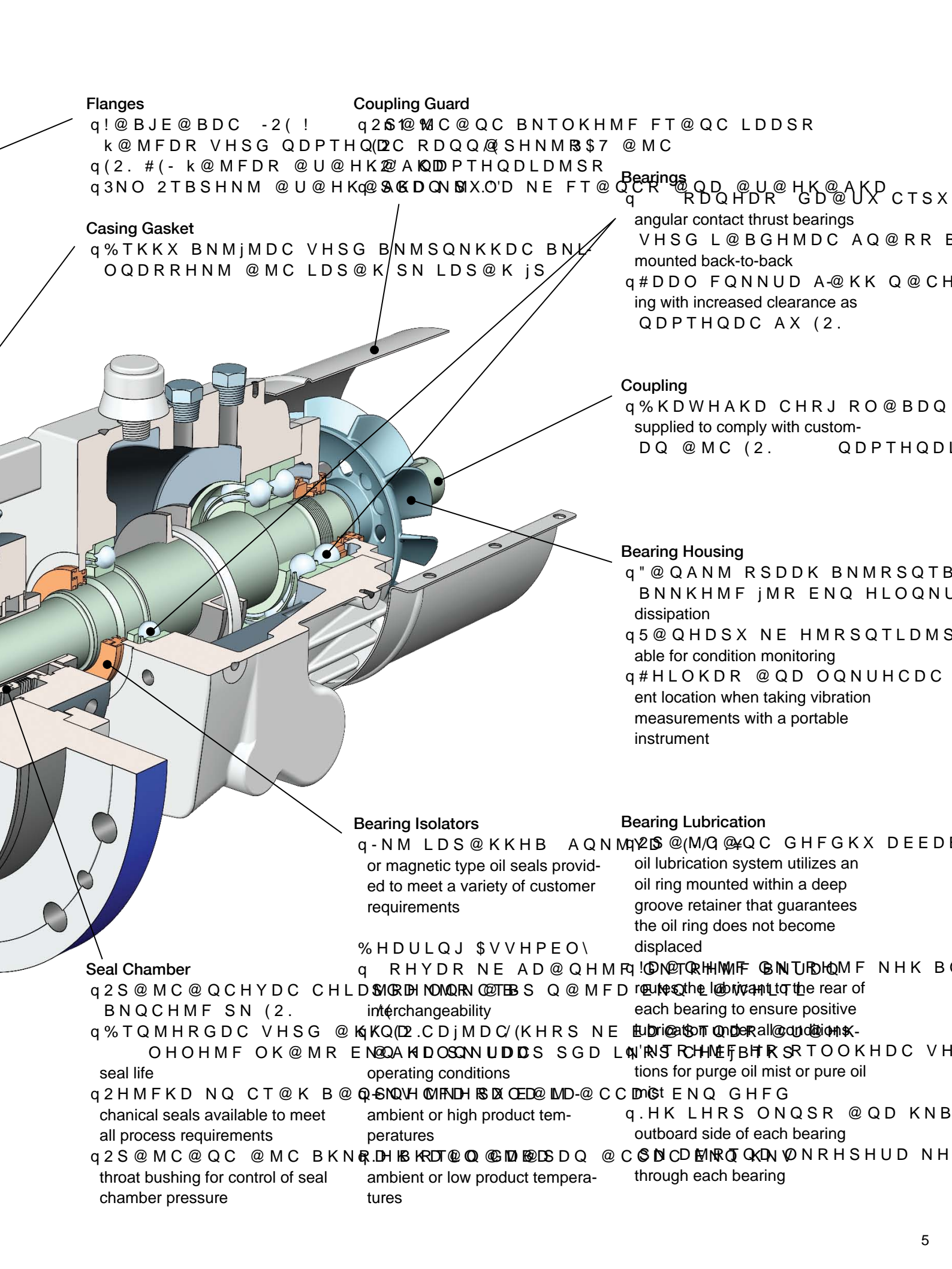
q(MCTBDQ @U@HK@AKD NM KE  
 for improved suction performances

## Impeller

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

## Diffuser

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



**Flanges**

q!@BJE@BDC -2( !  
 k@MFDR VHSG QDPHQDC RDQQ@SHNMR\$7 @MC  
 q(2. #(- k@MFDR @U@HK@AKD QDPHQDLDMSR  
 q3NO 2TBSHNM @U@HK@AKD QDPHQDLDMSR

**Coupling Guard**

q2S@MC@QC BNTOKHMF FT@QC LDDSR  
 QDPHQDC RDQQ@SHNMR\$7 @MC  
 QDPHQDLDMSR

**Bearings**

q CR @QD @U@HK@AKD  
 q RDQHDR GD@UX CTSX  
 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  
 QDPHQDC AX (2.

**Casing Gasket**

q%TKKX BNMjMDC VHSG BNMSQNKKDC BNL  
 OQDRRHNM @MC LDS@K SN LDS@K js

**Coupling**

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

**Bearing Housing**

q"@QANM RSDDK BNMRSQTB  
 BNKHMf jMR ENQ HLOQNU  
 dissipation  
 q5@QHDSX NE HMRSQTLDMSR  
 able for condition monitoring  
 q#HLOKDR @QD OQNUHCDC  
 ent location when taking vibration  
 measurements with a portable  
 instrument

**Bearing Isolators**

q-NM LDS@KKHB AQNM  
 or magnetic type oil seals provid-  
 ed to meet a variety of customer  
 requirements

**Bearing Lubrication**

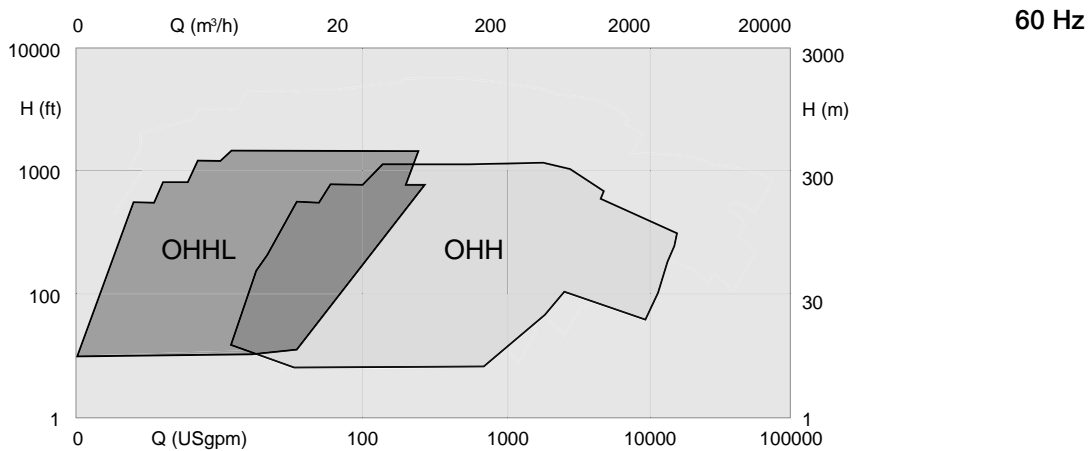
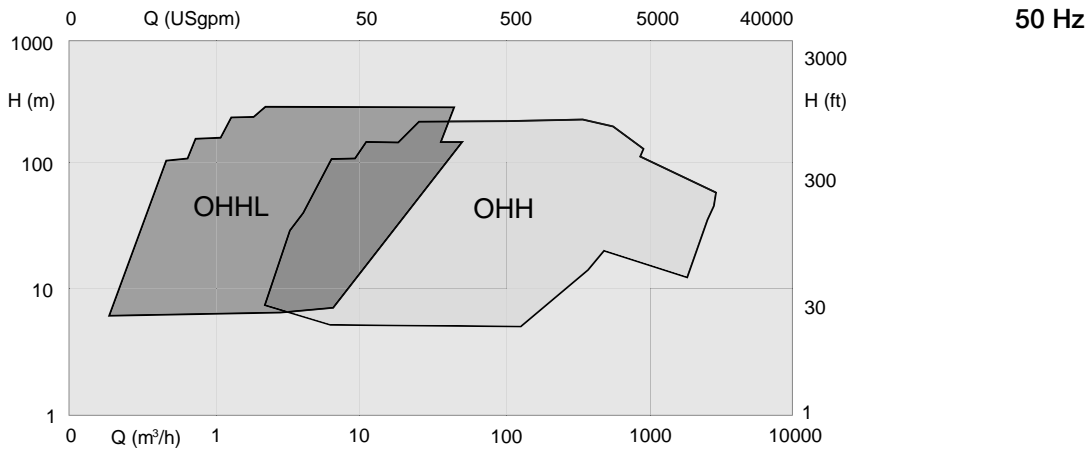
q2S@MC@QC GHFGKX DEED  
 oil lubrication system utilizes an  
 oil ring mounted within a deep  
 groove retainer that guarantees  
 the oil ring does not become  
 displaced  
 ensures the lubricant to the rear of  
 each bearing to ensure positive  
 lubrication under all conditions  
 conditions for purge oil mist or pure oil  
 q.HK LHRSONQSR @QD KNB  
 outboard side of each bearing  
 through each bearing

**Seal Chamber**

q2S@MC@QCHYDC CHLDS  
 BNQCHMF SN (2.  
 q%TQMHRGDC VHSG @KQDCjMDC/(KHSR NE  
 OHOHMF OK@MR ENQ  
 seal life  
 q2HMFKD NQ CT@K B@  
 chanical seals available to meet  
 all process requirements  
 q2S@MC@QC @MC BKNR  
 throat bushing for control of seal  
 chamber pressure

%HDULQJ \$VVHPEO\  
 q RHYDR NE AD@QHMF  
 interchangeability  
 operating conditions  
 ambient or high product tem-  
 peratures  
 ambient or low product tempera-  
 tures

# OHH and OHHL Performance Ranges



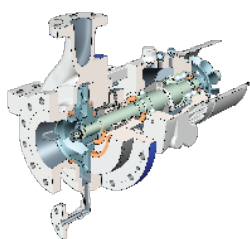
## Operating Data

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

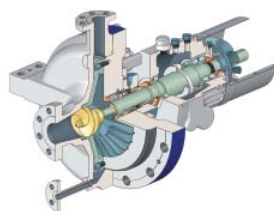
OHHL	50 Hz		60 Hz	
/TLO RHYD	SN	LL	SN	HMBGDR
" @O@BHSX	L G SN	GL	SN	42FOL
'D@C	L SN	L	SN	EDDS
/QDRRTQD	TO SN	A@Q	TO SN	ORH
3DLODQ@STQD	!" SN	!"	!% SN	!%

# Sulzer Overhung Process Pumps

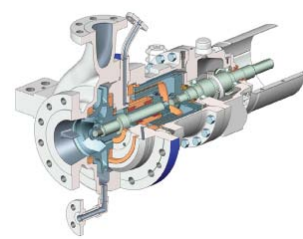
2TKYDQ /TLOR GD@UX CTSX NUDQ  
 hung process pump product range  
 HR NMD NE SGD OTLO HMCTRSQX R LNRS  
 versatile, serving a diverse number  
 of applications in several market  
 RDFLDMSR ,@MX TRDQR G@UD @  
 preference for its rugged centerline  
 RTOONQS Q@CH@K ROKHS B@RHMFB DWSQ@  
 heavy shaft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



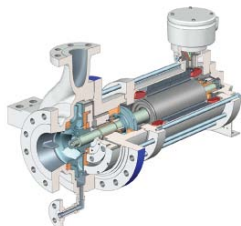
7\SH 2++  
 Overhung horizontal centerline  
 mounted single stage, radially  
 ROKHS (2. /(  
 pump. Available with single, dual-  
 pressurized and dual un-pressur-  
 ized mechanical seals, including  
 CQX F@R RD@KR SN SGD K@SDRS (2.  
 /(  
 2D@K 2S@MC@QC



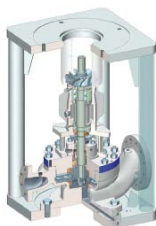
7\SH 2++/  
 3GD .''+ HR SGD R@LD 4STHFFHYDR SGD .'' GXCQ@TK  
 CDRHFM VHSG KNV KNO SMO@R KHB @ EBNQ  
 HOLONBNDURRC GXCQ@TKHB j S@D@KMD @S K@FCQHUD O  
 KNV BNMCHSHNMR



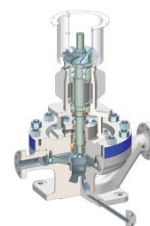
7\SH 2+0  
 4STHFFHYDR SGD .'' GXCQ@TK  
 SMO@R KHB @ EBNQ  
 HOLONBNDURRC GXCQ@TKHB j S@D@KMD @S K@FCQHUD O  
 DEjBHDMBX L@FCQHUD @ MC  
 containment offer improved integ-  
 rity.



7\SH 2+&  
 4SHKHYDR SGD .'' GXCQ@TKHB@M HMKHMD U  
 ONMDMSR @MC 'DQLDSHTB @S@SDC.' OTLO SQNCTB@MC BNUDQR SGD  
 motor for the ultimate in sealless  
 pump integrity. Fully compliant with  
 /(  
 2D@K 2S@MC@QC



7\SH 2+9  
 3GD .'' .''5 .''+ @MC .''5+  
 (2. /(  
 3XOD .all use the same rugged bearing  
 NUDQGTMF HMKHMD OT@MC .(S.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.



7\SH 2+9/  
 3GD .'' .''5 .''+ @MC .''5+  
 (2. /(  
 3XOD .all use the same rugged bearing  
 NUDQGTMF HMKHMD OT@MC .(S.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

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[www.motralec.com](http://www.motralec.com)