

ESP-211

Munis 230710



## City of Ocala

# Request for Sole Source Procurement

This form **MUST** be used for commodities or services that are available from only one source and there are no alternates. Forward to [bids@ocalafl.org](mailto:bids@ocalafl.org) sixty (60) days prior to actual need.

Date Submitted: 08/11/2023 Requesting Division/Department: OUS Warehouse

Contact Person: Mary Ann St. Laurent Telephone Number: 352-351-6705

Commodity/Service: Sulzer Pumps - Commodity/Goods

Describe the commodity or service and its function: Sulzer Pumps will allow WRS to have a reliable pumps that performs under high-velocity conditions.

Cost of Commodity or Service: \$ 50,000.00

Vendor Name: Hydra Services, Inc. Contact Name: Dale Jahn

Address: 250 Springnew Commerce Dr. City/State/Zip: Debary, Florida 32713

Contact Phone Number: 407-790-9751 Contact E-Mail Address: dale@hydraservice.net

This purchase is clearly and legitimately limited to a Sole Source because the commodity or service is: Hydra Services, Inc. is the sole distributor for the Sulzer Pumps Solutions Inc's product line.

Item(s) are available from only one source and there are no alternates (initials required): MS  
Initials

**Attach vendor documentation\*** certifying that the vendor is the only source for the commodities or services in question or holds the production, copyrights, trademark, and/or patent to the item.

### Check the following statement(s) that apply:

- ☒ The vendor holds the exclusive distribution rights for the item in question.
- ☐ The commodity to be purchased is the only item compatible with existing equipment owned by the City.
- ☒ The vendor is the sole provider of the commodities or services which have unique characteristics essential to the needs of the City to perform the intended function and no other goods or service will be suitable for use by the City.

*\*Note: Certifying documentation must be attached to this form or it will be rejected.*

**What steps were taken to verify that these features are not available elsewhere?**

- ☐ Other brands/manufacturers were examined (please list names, phone numbers, and explain why they are not suitable for use by the City. Attach additional pages as necessary): \_\_\_\_\_
- ☐ Other vendors were contacted (please list names, phone numbers and explain why those contacted would not meet the needs of the City. Attach additional pages as necessary): \_\_\_\_\_
- ☒ State why this is the only source for the required commodity or service (attach additional pages as necessary): Water Resources moving forward has made a change to standardize using Sulzer Pumps at certain list stations that require high-velocity flow. This will give constancy to the system for maintenance and repairs.

**I hereby certify that to the best of my knowledge, this request is a sole source and the information provided herein is accurate and truthful.**

**Mary A St. Laurent** Digitally signed by Mary A St. Laurent  
Date: 2023.08.11 13:22:03 -04'00'

Requester's Signature

Date

Requesting Director's Signature

Date

**For Procurement Use Only**

**Sole Source Number (if applicable):** SS P-211

**Date Listing Posted:** 8/14/2023

This request appears to be sole source.

☒ Yes

☐ No

If, no. Is this a standardization?

☐ Yes

☐ No

Is Council approval required?

☐ Yes

☐ No

Was this Procurement posted on the Internet?\*

☐ Yes

☐ No

\*this requirement is for sole sources

**Comments/Justification:**

**If Protested successfully, Vendor who provides similar goods/services:** \_\_\_\_\_

**Date Sole Source Terminated:** \_\_\_\_\_

  
Procurement Staff Reviewer Signature

9/8/2023  
Date

Approved ☒

Denied ☐

  
Chief Procurement & Contracting Officer

9/12/23  
Date

**NOTE: Section 838.22 Florida Statutes, it is unlawful (second degree felony) for a public servant with corrupt intent to obtain a benefit for any person (company) or to cause unlawful harm to another, to circumvent a competitive bidding process required by law or rule by using a sole-source contract for commodities (goods) or services.**



Sulzer Pumps Solutions Inc.  
140 Pond View Drive  
Meriden, CT 06450  
Phone (203) 238 2700  
Fax (203) 514 4364  
[www.sulzer.com](http://www.sulzer.com)

September 2, 2022

To: City of Ocala

The purpose of this letter is to confirm that Hydra Service Inc., located in DeBary, Florida, is the sole Distributor contracted for Sulzer wastewater (formerly ABS) products, including pumps, mixers, blowers and aerators, for the Municipal Wastewater Collection and Treatment market. Hydra Service's territory includes the entire state of Florida.

Nationally, we utilize a network of independent distributors/service centers to serve the Municipal, Industrial, Building Trades and Dewatering market segments in specific territories. The authorized distributor for Sulzer products in these segments/territories has the expertise, knowledge, training and access to the latest product developments and upgrades, along with genuine OEM parts. Hydra Service staff is trained in the latest methods in care and start-up of our equipment and has the ability to execute warranty claims.

Please do not hesitate to contact me if I can provide any additional information.

Sincerely,

*Tim Laskowski*

Tim Laskowski  
Regional Sales Manager  
Sulzer Pump Solutions  
(972) 654 - 0553  
[Timothy.laskowski@sulzer.com](mailto:Timothy.laskowski@sulzer.com)

Time left: **14d 11:52:34**[SHOW INSTRUCTIONS](#) ▼**Transaction Fee:**[Yes](#)**ProRFx ID:**

RFI08142300000141

**ProRFx Type:**

RFI: Supplies

**Format:**

Client Purchase

**Solicitation No:**

SSP - 211

**Listing Category:**

[40151500] Pumps

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**Scope of Work:****Bid Name:**

Sulzer Pumps

It is the intent of the City of Ocala to purchase the product listed in the attached Exhibit A. This particular product may be classified as "Sole Source." If you believe your company has the capability of supplying a "like" (equal, equivalent, and/or identical) product, please send an e-mail to [emarquez@ocalafl.org](mailto:emarquez@ocalafl.org); Senior Buye... [VIEW ALL](#)

**Listing Image:**[Pic\\_f9adc2ce.png](#) (PNG, 15 KB)**Industry Type:**

City and town managers' offices

**Contact Name:**

Ms. Eileen Marquez

**Contact Phone:**

(352) 629-8362

**Ship to Location:**

110 SE Watula Avenue

**Address1:**

110 SE Watula Avenue

**Address2:**

CITY HALL

**City:** Ocala**State:** FL**Zip/Postal:** 34471**Listed By:**

CITY OF OCALA

**Listing Creator:**[Contact information](#)**Contact Email:**[emarquez@ocalafl.org](mailto:emarquez@ocalafl.org)**Listing Class.:****RFI**

Request For Information

**Listing Ends After:**

End Date/Time reached

**Listing Start Date:**

8/14/2023 4:49:37 PM EST

**Listing End Date:**

9/7/2023 1:00:00 AM EST

**Bid Closes:**

9/7/2023 1:00:00 AM EST



## IMPORTANT BID DOCUMENT(S)

1. [Exhibit A - Sole Sou... MORE](#) ▼ (186.2 KB - PDF)



**Listing View**[Vendor Questions](#) (0, 0) [Bids](#) (0)

Template: RFI ()

**Supplies - RFI** **Header** (4 steps to complete)

1. Anti-Lobbying/Communications
- 2.\*Vendor Agreements
- 3.\*SPECIAL CONDITIONS
4. Electronic Bid Response

[BLANK] [?]

[REQUIRED] [?]

[REQUIRED] [?]

[BLANK] [?]

**1. Response Requirements****1.1. Anti-Lobbying/Communications****ANTI-LOBBYING/COMMUNICATION WITH CITY STAFF AND OFFICIALS:**

To ensure fair consideration for all proposers/bidders, the City strictly prohibits any communication, whether or not written, verbal, or through a third party, relative to this solicitation with any department, City official, City Council member, or employee during the submission process, except inquiries directly made to the Procurement and Contracting Department, Contracting Officer, or as provided in the protest policy located at: [Protest Policy](#)

Additionally, the City prohibits communications initiated by a proposer/bidder, agent, or third party of proposer/bidder to any City official(s), City Council member(s), or employee(s) evaluating or considering the proposals/bids prior to, and up to the time an award decision is made at a scheduled City Council meeting.

**\*\*\* Any prohibited communications initiated by a proposer/bidder, or a third party on behalf of proposer/bidder, will be grounds for disqualifying the offending proposer/bidder from consideration for award of the solicitation >AND< will face a three (3) year debarment from doing any business with the City of Ocala. \*\*\***

**\*1.2. Vendor Agreements***One or more items in this section are required.***Compliance Certification:**

As an authorized company representative, I certify my firm or corporation:

☐ Agrees to comply the requirements of Florida Statute 287.087 for a Drug Free Workplace.

☐ Agrees to comply with the requirements of Florida Statute 448.095 for Employment Eligibility. Employers, contractors and their subcontractors are required to register and use the Department of Homeland Security's E-Verify system when hiring new employees for the term of the contract. Violations will result in contract termination. (E-Verify is operated by the U.S. Department of Homeland Security).

**Owner/Authorized Company Representative initials:**

**\*1.3. SPECIAL CONDITIONS***One or more items in this section are required.***ADA NEEDS:**

Please call the procurement professional shown on this listing forty-eight (48) hours in advance so arrangements can be made if reasonable accommodations are needed for you to participate in any meeting.

**AWARDED CONTRACT FAILURE - BIDDING SUSPENSION**

☐ I understand and agree to the following:

Bidders who submit a bid to the City of Ocala and fail to fulfill the contract term, for any reason, will be subject to future bidding suspension for year (1), and up to a possible three (3) year bid debarment for serious contractual failures.

**Owner/Authorized Company Representative initials:**

**BIDDER CONTRACTS:**

Bidder contracts/agreements will not be accepted in most cases. If a contract is required, only City of Ocala contracts will be used for all goods and services. The requirement of bidder contracts and/or bidder written terms and conditions may result in bid rejection. The City will consider adding appropriate bidder clauses into our contract; please upload any desired clauses with your solicitation response.

**CLARIFICATIONS AND CORRECTIONS:**

The City of Ocala reserves the right, where it may serve the City's best interest, to request additional information or clarifications from bidders/proposers, or to allow corrections of errors or omissions.

**CONFIDENTIAL, PROPRIETARY, OR TRADE SECRET MATERIAL:**

The City of Ocala (City) shall handle all written competitive submissions, replies, oral presentations, other submissions, correspondence, meetings and all records made thereof, and all other records concerning this solicitation in compliance with Chapters 119 and 286, Florida Statutes and Article 1, Section 24 of the Florida Constitution.

Proposals or replies received by the City pursuant to its solicitations are exempt from public disclosure until such time that the City provides notice of an intended decision or until thirty (30) days after opening the proposals, whichever is earlier. If the City rejects all proposals or replies pursuant to this solicitation and provides notice of its intent to reissue the solicitation, then the rejected proposals or replies remain exempt from public disclosure until such time that the City provides notice of an intended decision concerning the reissued solicitation or until the City withdraws the reissued solicitation. A proposal or reply shall not be exempt from public disclosure longer than twelve (12) months after the City's initial notice rejecting all proposals or replies.

Upon award recommendation or ten (10) days after opening, bids become "public records" and shall be subject to public disclosure consistent with Chapter 119 (Public Records) and Section 815.045 (Trade Secret Information), Florida Statutes. Should bidders/proposers consider any information related to their proposal or the services to be provided to City to be proprietary, a trade secret, or otherwise constitute confidential material under Florida or federal law, bidder/proposer shall designate such portion of the material as such by clearly marking it as CONFIDENTIAL, PROPRIETARY, or TRADE SECRET and submit both a non-redacted and redacted copy of their submission. The redacted copy shall only exclude or obliterate the exact portions claimed to be confidential, proprietary, or trade secret. Additionally, bidder/proposer shall state the basis for of the exemption that it contends is applicable to the record, to include the statutory citation to an exemption created or afforded by statute.

**THE CITY WILL MAKE NO EFFORT TO VERIFY WHETHER OR NOT THE REDACTED MATERIAL IS EXEMPT FROM CHAPTER 119, FLORIDA STATUTES. THAT DETERMINATION IS TOTALLY THE RESPONSIBILITY OF THE BIDDER/PROPOSER AND THE BIDDER/PROPOSER SHALL BE SOLELY RESPONSIBLE FOR DEFENDING ITS DETERMINATION THAT THE REDACTED PORTIONS OF ITS RESPONSE ARE CONFIDENTIAL, TRADE SECRET, OR NOT OTHERWISE SUBJECT TO DISCLOSURE. PROPOSER SHALL PROTECT, DEFEND, AND INDEMNIFY THE CITY FOR ANY AND ALL CLAIMS ARISING FROM OR RELATING TO PROPOSER'S DETERMINATION THAT THE REDACTED PORTIONS ARE NOT SUBJECT TO DISCLOSURE. IF THE PROPOSER FAILS TO SUBMIT A REDACTED COPY OF ITS SUBMISSION, ANY CLAIM OF CONFIDENTIALITY IS WAIVED, AND THE CITY SHALL BE AUTHORIZED AND REQUIRED TO PRODUCE THE ENTIRE DOCUMENT OR RECORD IN ITS ANSWER TO A PUBLIC RECORDS REQUEST FOR SAID RECORDS.**

**I have read and understand my responsibilities regarding any purported confidential, PROPRIETARY, or trade secret material contained in my proposal AND (please select the appropriate statement below):**

- ☐ I have not included a redacted copy of our proposal.
- ☐ I have included a redacted copy of our proposal along with this original.

**Owner/Authorized Company Representative initials:**

**CONFLICT OF INTEREST:**

Disclose the name(s) of any employee, officer, director, shareholder, or agent of your firm that is also a City of Ocala employee or public official:

Disclose the name(s) of any City of Ocala employee or public official that is a known relative of an employee, officer, director, shareholder, or agent of your firm:

**Failure to disclose known conflicts of interest may result in bid rejection and/or contract termination, if awarded.**

City of Ocala employees who have a 5% or more interest in a bidder's firm must also complete an "Officer and Employee Disclosure Statement" which can be obtained at [www.bidocala.com](http://www.bidocala.com) under Vendor Resources. This form includes instructions and relative Florida statutes. Failure to complete this form, if applicable, may result in bid rejection.

**PERFORMANCE EVALUATION:**

At the end of the service period, the City may evaluate vendor performance. This evaluation will become public record.

**FLORIDA STATUTE 287.133: Public Entity Crime;** denial or revocation of the right to transact business with public entities.

☐ **Vendor on its behalf and its affiliates agrees and affirms that it has not been placed on the convicted vendor list following a conviction of a public entity crime as provided for in Section 287.133(2)(a), Florida Statutes, which states:**

a person or affiliate who has been placed on the convicted vendor list following a conviction for public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases or real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO, for a period of 36 months from the date of being placed on the convicted vendor list.

**Owner/Authorized Company Representative initials:**

**REQUESTED AND ADDITIONAL DOCUMENTS**

Upload any requested and additional documents here:

Upload



**Not Uploaded**

Browse...

Max. File Size you can upload is: 50MB. \*.exe files will not be accepted

**SAFETY AND ENVIRONMENTAL:**

Vendor will be responsible at all times for precautions to achieve the protection of all persons including employees and property throughout the resulting contract term. The Vendor shall make an effort to detect hazardous conditions and shall take prompt action where necessary to avoid accident, injury or property damage. EPA, DEP, OSHA, and all other applicable safety laws and ordinances shall be followed as well as American National Standards Institute Safety Standards. All hazardous spills, accidents, injuries or claims or potential claims shall be reported promptly to the City Risk Management Department at 352-401-3989, or cell 352-572-0414, and [rdennis@ocalafl.org](mailto:rdennis@ocalafl.org).

☐ Agrees to comply with the safety and environmental requirements above.

**Owner/Authorized Company Representative initials:**

**SOLICITATION DOCUMENTS:**

The City of Ocala (City) has no responsibility for the accuracy, completeness or sufficiency of any bid documents obtained from any source other than the official City links below:

Bid Ocala: [www.bidocala.com](http://www.bidocala.com)

ProRFx Florida: [www.florida.prorfx.com](http://www.florida.prorfx.com)

Obtaining these documents from any other source(s) may result in obtaining incomplete and inaccurate information. Obtaining these documents from any source other than directly from the source listed herein may also result in failure to receive any addenda, corrections, or other revisions to these documents that may be issued.

**1.4. Electronic Bid Response**

**ELECTRONIC BID RESPONSE REQUIRED:**

All bids/proposals **MUST be electronically submitted** by or before the due date under the appropriate solicitation/listing accessed online at: [www.bidocala.com](http://www.bidocala.com) or [www.prorfx.com](http://www.prorfx.com)

Bids/proposals **may not be submitted by any other means** other than as described above. The City will **NOT** accept



Bids/proposals may not be submitted by any other means other than as described above. The City will NOT accept bids/proposals sent by U.S. Mail, private couriers, fax or email.

Submit

## Scope Of Work

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It is the intent of the City of Ocala to purchase the product listed in the attached Exhibit A. This particular product may be classified as "Sole Source." If you believe your company has the capability of supplying a "like" (equal, equivalent, and/or identical) product, please send an e-mail to [emarquez@ocalafl.org](mailto:emarquez@ocalafl.org); Senior Buyer, and include any and all descriptive information and documentation which supports the claim that your product is a "like" item.

The products and or services listed on the attached pages are believed to be of a unique or proprietary nature and therefore only available from one source. The sole source posting shall be listed for a period not less than fifteen (15) business days.

**From:** [Erica Cole](#)  
**To:** [Erica Cole](#)  
**Subject:** FW: Your policy exception has been approved.  
**Date:** Thursday, September 22, 2022 9:51:46 AM

---

**From:** City of Ocala - Contracting Officer <[noreply@jotform.com](mailto:noreply@jotform.com)>  
**Sent:** Wednesday, September 21, 2022 1:12 PM  
**To:** Luis Acosta <[lacosta@ocalafl.org](mailto:lacosta@ocalafl.org)>; Corrin M. Fitsemons <[cmfitsemons@ocalafl.org](mailto:cmfitsemons@ocalafl.org)>; Daphne Robinson <[drobenson@ocalafl.org](mailto:drobenson@ocalafl.org)>  
**Subject:** Your policy exception has been approved.

Your policy exception has been **approved**.



**Approval Comments:** he standardization of Sulzer Pumps is approved. Per Luis Acosta, Water Resources standardizes all their pumps so a limited amount of tested pumps/brands exist on our system for maintenance and technician familiarity. Shinmaywa and Grundfos pumps are the current standard pumps. However, on 6/4/20 and 9/1/21 the Contracting Officer approved the purchase of Sulzer pumps at Lift Stations 124 and 64 respectively after testing against Shinmaywa (LS 124) and Grundfos (LS 64). Lift Station 146 requires a high horsepower pump that performs under high-velocity conditions and the Sulzer pump is the only tested pump currently installed at a City facility that can maintain the required flow velocity. If your purchase or aggregate expenditures under a contract exceed \$50,000, calendar for City Council approval. PLEASE ENSURE THE VENDOR HAS UP-TO-DATE INSURANCE, ENTER A MUNIS CONTRACT FOR EXPENDITURE AND WARRANTY TRACKING, THEN ENTER A REQUISITION SO A PURCHASE ORDER CAN BE CREATED WITH CITY TERMS & CONDITIONS.

#### Procurement/Contract/P-Card Exception

Select exception type:

Procurement

Reason for procurement exception:

Standardization

LS146 located at 2398 NW 35TH ST average a total daily flow of 87,111.00 gallons per day and 610,000 gallons per week of raw sewage. Majority of the flow comes from LS152 that receive flows from Silver Spring Bottle Water Inc thru a RO process. Reverse osmosis (RO) is the membrane system most widely used to desalt brine

**Enter a brief description of your exception request:**

waters. RO produces freshwater and more concentrated brine often referred to as RO brine, reject, or concentrate. This brine concentrate will usually reach concentrations of dissolved salts in some cases and chemicals that will be near scaling limits. Often, we need to flush our sewer force main at those location due to the excessive scaling build up on the pipe causing reduce flows. Hydra Services with the Sulzer Pumps has help us on the pass with other complex pumping applications in our collection system (LS064 - Demo for a year on before purchasing pumps and LS124), and they have proposed a solution with a pump model for us to maintain the necessary flow velocity to eliminate and at the same time prevent the unwanted scaling build up on our force main. Standardizing on this model pumps will minimize multiple different types of pumps or manufactures in our system for the mention application. Currently they have this pump in stock at there facility in Orlando. Attached find quote for 2 of this unit.

9-14-2022 - Additional Information from previews Sulzer applications attached.

**Attach all documents related to the exception that can assist the Contracting Officer's decision.**

[ABS-Sulzer Warranty Information\\_5-28-20.pdf](#)  
[LS064 Sulzer Request\\_8-24-2021-1.pdf](#)  
[LS064 Sulzer Request\\_8-24-2021-2.pdf](#)  
[LS124 Sulzer Request\\_6-4-2020.pdf](#)  
[Ocala LS 64 Pump Replacement.pdf](#)  
[Ocala LS 64.pdf](#)  
[Sulzer Sole Source letter\\_HSIS\\_9-6-2022.pdf](#)  
[Ocala LS 146 Pump Replacement.pdf](#)  
[Ocala LS 146 pump data.pdf](#)

**Department**

(WRS) WATER RESOURCES

**Requestor Name**

Luis Acosta

**Requestor Email**

[lacosta@ocalafl.org](mailto:lacosta@ocalafl.org)

**Phone number**

(352) 572-0421

**Who authorized requesting this exception?**

Luis Acosta



*Hydra Service, Inc.*  
SPECIALIST IN FLUID MOVEMENT



250 Springview Commerce Drive  
DeBary Florida 32713  
Phone: 407 330 3456  
Phone: 800 323 1731  
Fax: 407 330 3404

**Sales Representative**  
**Contact Information**  
Cell Phone: 407-790-9751

TO: **City of Ocala**

ATTN: **Luis Acosta**

PHONE **352-572-0421**

FAX: **352-401-3961**

EMAIL: [lacosta@ocalafl.org](mailto:lacosta@ocalafl.org)

FROM: **Dale Jahn**  
EMAIL: [dale@hydraservice.net](mailto:dale@hydraservice.net)  
DATE: **June 28, 2023**

QUOTE: **221109-3DJ**

REF: **Ocala - Grundfos 42hp "58H" Replacement**

- 1 Sulzer / ABS model XFP100J-CH1.325mm-PE350/4 submersible wastewater pump, 47hp, 3/460v, with 49' of motor cable.  
Pump includes stainless steel lifting bail and closed loop motor cooling system.

TOTAL PRICE, F.O.B. JOB, FREIGHT INCLUDED

**\$42,640.00**

PLEASE ADD ANY FEDERAL, STATE OR LOCAL TAXES WHICH MAY APPLY. TERMS ARE NET **30** DAYS.

**"HYDRA SERVICE INC TERMS & CONDITIONS APPLY" PAYMENT TERMS NET 30 DAYS.**

ESTIMATED DELIVERY: **1-2** WEEKS AFTER RECEIPT IN OUR OFFICE OF COMPLETE  
APPROVED SUBMITTAL DATA AND SIGNED PROPOSAL.

THESE TERMS ARE INDEPENDENT OF, AND ARE NOT CONTINGENT UPON THE TIME OR MANNER  
IN WHICH PURCHASER MAY RECEIVE PAYMENT FROM OTHERS.

**0** DAY OF FACTORY START-UP IS INCLUDED AND REQUIRED FOR WARRANTY. PAYMENT  
FOR MATERIALS WILL BE REQUIRED BEFORE THE AUTHORIZED START-UP IS CONDUCTED.

ACCEPTED DATE \_\_\_\_\_

Review Date: 06/28/2023

*Dale M. Jahn*

\_\_\_\_\_  
NAME OF PURCHASER

\_\_\_\_\_  
REVIEWED BY HYDRA SERVICE PUMP REP.



*Hydra Service, Inc.*  
SPECIALIST IN FLUID MOVEMENT



250 Springview Commerce Drive  
DeBary Florida 32713  
Phone: 407 330 3456  
Phone: 800 323 1731  
Fax: 407 330 3404

**Sales Representative**  
**Contact Information**  
Cell Phone: 407-790-9751

TO: **City of Ocala**

ATTN: **Luis Acosta**

PHONE **352-572-0421**

FAX: **352-401-3961**

EMAIL: [lacosta@ocalafl.org](mailto:lacosta@ocalafl.org)

FROM: **Dale Jahn**  
EMAIL: [dale@hydraservice.net](mailto:dale@hydraservice.net)  
DATE: **June 28, 2023**

QUOTE: **221109-4DJ**

REF: **Ocala - Grundfos 42hp "58M" Replacement**

- 1 Sulzer / ABS model XFP150J-CH2.270mm-PE350/4 submersible wastewater pump, 47hp, 3/460v, with 49' of motor cable.  
Pump includes stainless steel lifting bail and closed loop motor cooling system.

TOTAL PRICE, F.O.B. JOB, FREIGHT INCLUDED

**\$41,092.00**

PLEASE ADD ANY FEDERAL, STATE OR LOCAL TAXES WHICH MAY APPLY. TERMS ARE NET **30** DAYS.

**"HYDRA SERVICE INC TERMS & CONDITIONS APPLY" PAYMENT TERMS NET 30 DAYS.**

ESTIMATED DELIVERY: **1-2** WEEKS AFTER RECEIPT IN OUR OFFICE OF COMPLETE  
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THESE TERMS ARE INDEPENDENT OF, AND ARE NOT CONTINGENT UPON THE TIME OR MANNER  
IN WHICH PURCHASER MAY RECEIVE PAYMENT FROM OTHERS.

**0** DAY OF FACTORY START-UP IS INCLUDED AND REQUIRED FOR WARRANTY. PAYMENT  
FOR MATERIALS WILL BE REQUIRED BEFORE THE AUTHORIZED START-UP IS CONDUCTED.

ACCEPTED DATE \_\_\_\_\_

Review Date: 06/28/2023

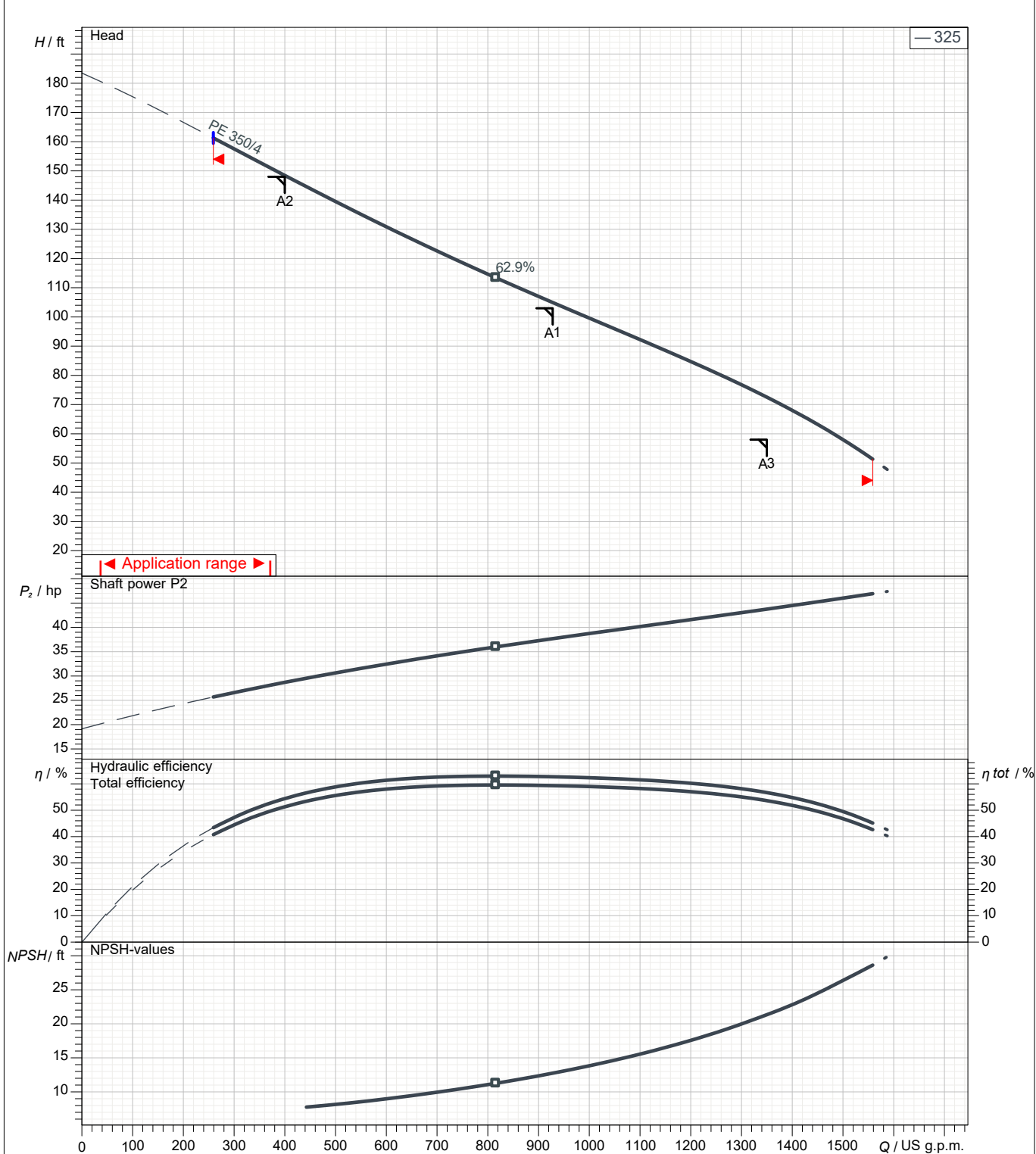
*Dale M. Jahn*

\_\_\_\_\_  
NAME OF PURCHASER

\_\_\_\_\_  
REVIEWED BY HYDRA SERVICE PUMP REP.



Curve number		<div>Pump performance curves</div> <div>XFP100J-CH1 60 HZ</div>				<div>SULZER</div>	
Reference curve XFP100J-CH1 60 HZ							
					Discharge DN100	Frequency 60 Hz	
Density 62.31 lb/ft³	Viscosity 1.077E-5 ft²/s	Test Standard ISO 9906, HI 11.6/14.6 Gr 2B			Rated speed 1786 rpm	Date 2022-10-31	
Flow 928 US g.p.m.	Head 103 ft	Shaft power	Power input	Rated power P2 46.9 hp	Hyd. efficiency	NPSH	



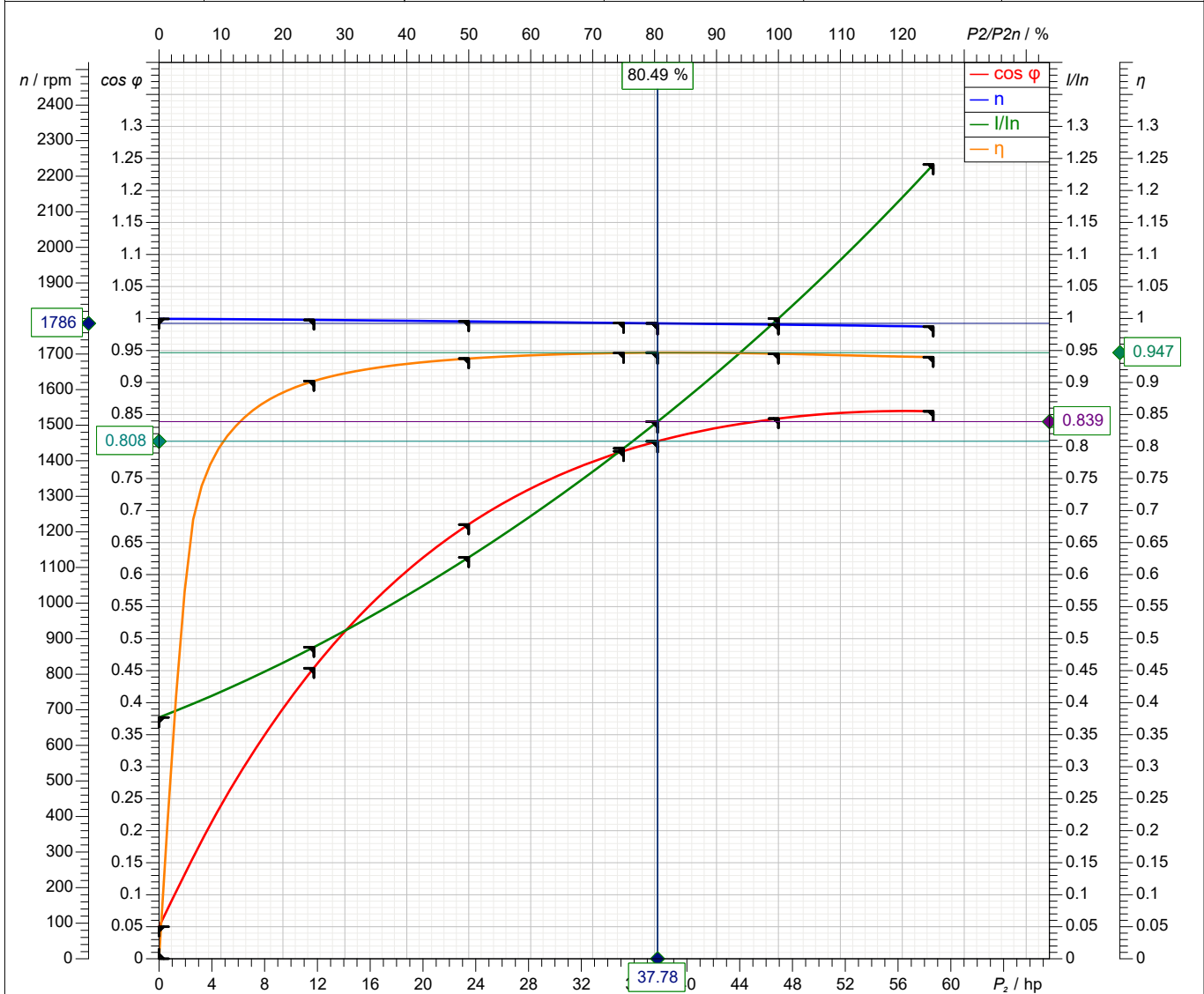
Wet well dual guide rail installation

Impeller size 325 mm	N° of vanes 1	Impeller 1-vane channel impeller	Solid size 80 mm	Revision
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Sulzer reserves the right to change any data and dimensions without prior notice  
and can not be held responsible for the use of information contained in this software.

Spaix® 5-2022.2 - 2022/10/13 (Build 543), 64 bit  
data version October 22.1

Rated power 46.9 hp	Service factor 1	Nominal Speed 1780 rpm	Number of poles 4	Rated voltage 460 V	Date 2022-10-31
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Symbol	No load	25 %	50 %	75 %	100 %	125 %
P2/ hp	0	11.73	23.47	35.2	46.94	58.67
P1/ hp	1.11	13	25.03	37.2	49.67	62.44
I / A	20.77	26.82	34.54	43.93	55.1	68.35
cos	0.05003	0.4539	0.6783	0.7927	0.8437	0.855
n / rpm	1799	1796	1792	1787	1783	1777
s / %	0.0571	0.2145	0.4596	0.7068	0.9522	1.276
M / lbf ft	0	34.31	68.8	103.4	138.3	173.4
/ %	0	90.24	93.75	94.62	94.49	93.97

Tolerance according to VDE 0530 T1 12.84 for rated power

Starting current 452 A	Starting torque 387 lbf ft	Moment of inertia 8.51 lb ft²	No. starts per hour 15
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# Submersible Sewage Pump Type ABS XFP

XFP 100J-CH1 | 4", 4 Pole, 3-Phase, 60 Hz, PE4

## Submersible Motor Specifications, PE4 Frame

Motor Design			NEMA design B, squirrel cage induction
Motor Type			Fully enclosed Premium Efficiency submersible, IP68 protection rating
Motor Efficiency Standard and Rating			IEC 60034-30, IE3 rating
Motor Efficiency Test Protocol			IEC 60034-2-1
Insulation Material			Class H, 180°C (356°F), copper windings
Motor Filling Medium			Air
Temperature Rise			Class A
Maximum Fluid Temperature			40°C (104°F) continuous, 50°C (122°F) intermittent
Cooling System		OPT	Closed-loop, non-toxic glycol/water mixture (⅓ / ⅔)
Motor Protection	Thermal	STD	Normally closed bimetallic switch in each phase, connected in series, 140°C (284°F) +/- 5°C (41°F) opening temperature
		OPT	STD plus: upper and lower bearing bimetallic switches or 100Ω RTD (PT100) in winding (option of one RTD or three RTDs in stator) and RTDs in lieu of upper and lower bearing bimetallic switches
	Leakage	STD	Moisture detection probe in seal sensing chamber (for use with appropriate relay)
		OPT	STD plus: probes in motor housing and junction chamber
	Sensing Chamber Filling Medium		
Bearing Type	Upper		Cylindrical roller, permanently lubricated
	Lower		Dual angular contact ball bearings plus single cylindrical roller bearing, permanently lubricated
Motor Starter Types			Suitable for use with electronic soft starters, and PWM type Variable Frequency Drives <sup>1</sup>
Maximum Starts per Hour			10 evenly spaced w/ soft starters; N/A with PWM type VFDs
Inverter Duty Rating			Motors meet NEMA MG1, part 31 requirements
Maximum Submergence			20 meters (65 feet)
Available Voltages			230, 460, 600 (consult factory for other voltages)
Voltage Tolerance from Rated			+/-10%
Agency Approvals			Factory Mutual, CSA
Explosion Proof Rating			NEC 500 Class 1, Division 1, Group C & D, Class T3C max surface temp



The picture above may differ from the actual product. For illustrative purposes only.

<sup>1</sup> Output filters may be required on VFDs. See document DS-E00-001 for details.

## Motor Ratings, PE4 Frame

Motor Model	Input Power (P1)	Rated Power Output (P2)	Nominal RPM	Rated Voltage	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	NEMA Service Factor	Motor Efficiency at % Load			Power Factor at % Load		
									100	75	50	100	75	50
PE 250/4	26.7 kW	25 kW 33.5 HP	1750	230 460 600	79.9 40.0 30.6	647 324 248	J	1.3	93.6	93.1	91.6	.839	.789	.676
PE 350/4	37.1 kW	34.9 kW 47 HP	1785	230 460 600	110.2 55.1 42.2	904 452 346	J	1.3	94.5	94.6	93.8	.844	.793	.678
PE 430/4	45.3 kW	43 kW 58 HP	1780	230 460 600	137.4 68.7 52.7	1223 611 469	K	1.3	95.0	94.8	94.0	.827	.765	.640
PE 520/4	54.7 kW	52 kW 70 HP	1780	230 460 600	162.8 81.4 62.4	1400 700 537	J	1.3	95.1	95.2	94.6	.844	.788	.668



## Submersible Sewage Pump Type ABS XFP

XFP 100J-CH1 | 4", 4 Pole, 3-Phase, 60 Hz, PE4

## Cable Data, PE4 Frame

	Motor	Motor Voltage	Cable Qty	Cable Type	Cable Nominal Outside Diameter +/- .5mm (.02")	
					Power	Ground
Power Cable	PE 250/4	230 volt	1	G-GC 4-3	30.2mm (1.19")	Integrated w/ Power
		460 volt	1	G-GC 8-3	24.6mm (0.97")	Integrated w/ Power
		600 volt	1	G-GC 8-3	24.6mm (0.97")	Integrated w/ Power
	PE 350/4	230 volt	1	G-GC 2-3	34.0mm (1.34")	Integrated w/ Power
		460 volt	1	G-GC 6-3	26.7mm (1.05")	Integrated w/ Power
		600 volt	1	G-GC 8-3	24.6mm (0.97")	Integrated w/ Power
	PE 430/4	230 volt	2	G-GC 4-3	30.2mm (1.19")	Integrated w/ Power
		460 volt	1	G-GC 4-3	30.2mm (1.19")	Integrated w/ Power
		600 volt	1	G-GC 6-3	26.7mm (1.05")	Integrated w/ Power
	PE 520/4	230 volt	2	G-GC 4-3	30.2mm (1.19")	Integrated w/ Power
		460 volt	1	G-GC 4-3	30.2mm (1.19")	Integrated w/ Power
		600 volt	1	G-GC 6-3	26.7mm (1.05")	Integrated w/ Power
Control Cable	Motor Monitoring Type <sup>3</sup>		Cable Qty	Cable Type	Cable Nominal Outside Diameter +/- .5mm (.02")	
	Std monitoring		1	SOOW 16/4	10.6mm (0.42")	
	Opt full monitoring		1	SOOW 16/8	14.2mm (0.56")	
	Opt full monitoring w/ 3 RTDs		1	SOOW 16/12	17.7mm (0.70")	
	Opt full monitoring w/ 5 RTDs		2	SOOW 16/10	17.2mm (0.68")	
Cable Length	Standard: 15m (49 feet)		Optional: 20m (65 feet), 30m (98 feet); Consult Factory for longer lengths			

<sup>3</sup> See motor protection on page 1. Optional full monitoring systems with RTD options do not include bearing bi-metallic switches.

## Pump Data

Discharge Size	4" flanged, compatible with 4" class 125 ANSI flanges					
Suction Size (Wet-Pit / Dry-Pit) <sup>5</sup>	4" undrilled / 4" flanged, compatible with 4" class 125 ANSI flanges, threaded for 8x5/8-11 UNC screws, 19mm (3/4") deep					
Volute Pressure Rating	16 bar (232 psi)					
Impeller Type	Closed Channel, 1-vane, w/ Seal Protection System					
Impeller	Code	-	-	-	-	-
	Diameter, mm (in.)	305 (12.0)	315 (12.4)	335 (13.2)	353 (13.9)	373 (14.7)
Solids Passage Size, mm (in.)		80 (3.15)	80 (3.15)	80 (3.15)	80 (3.15)	80 (3.15)
Min. Recommended Flow, GPM <sup>6</sup>		350	375	475	550	500

<sup>5</sup> Wet-pit version can be drilled to dry-pit specifications upon request. Consult factory for details. <sup>6</sup> Recommend minimum continuous flow. Consult factory for applications below this flow rate.

## Materials of Construction

		Standard	Optional
Power/Control Cable Jacket		Chlorinated Polyethylene (CPE)	
Lifting Hoop		Ductile Iron EN-GJS-400-18 (ASTM A-536; 60-40-18)	Duplex Stainless Steel 1.4470 (ASTM A890, CD3MN Grade 4A)
Cable Connection Chamber		Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Motor Housing		Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Cooling Jacket		Steel 1.0036 (ASTM A-570, Grade D)	
Intermediate Housing		Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Seal Plate/Cooling Chamber		Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Pump and Motor Shaft		Stainless Steel 1.4021 (AISI 420)	Duplex Stainless Steel 1.4462 (UNS S31803)
Impeller		Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	Duplex Stainless Steel 1.4470 (ASTM A890, CD3MN Grade 4A)
Wear Parts	Impeller Wear Ring	N/A	Stainless Steel 1.4571 (AISI 316Ti)
	Volute Wear Ring	Cast Iron EN-GJL-300 (ASTM A-48, Class 40B)	Stainless Steel 1.4581 (AISI 318)
	Bottom/Wear Plate	N/A	
Volute		Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	Duplex Stainless Steel 1.4470 (ASTM A890, CD3MN Grade 4A)
External Hardware		Stainless Steel 1.4401 (AISI 316)	
O-Rings and Cable Glands		Nitrile (Buna-N)	Viton <sup>®</sup>
Mechanical Seals	Lower	Silicon Carbide / Silicon Carbide, Nitrile, 316 SS	Silicon Carbide / Silicon Carbide, Viton <sup>®</sup> , 316 SS
	Upper	Silicon Carbide / Silicon Carbide, Nitrile, 316 SS	
Lower Bearing Lip Seal		Nitrile (Buna-N)	
Coating/Protection		Two-part epoxy, blue, 120µm (4.7 mil) DFT	Two-part epoxy, blue, 400µm (15.7 mil); Wet-end liquid ceramic coating, 500µm (19.7 mil); Zinc Anodes

## General Data (Standard Materials of Construction &amp; Cable Length)

	PE 250/4	PE 350/4	PE 430/4	PE 520/4		
Overall Height	1467mm (57.8")	1467mm (57.8")	1547mm (60.9")	1547mm (60.9")		
≈ Pump Weight (Non-Cooled)	560 kg (1235 lb)	595 kg (1312lb)	630 kg (1389 lb)	660 kg (1455 lb)		

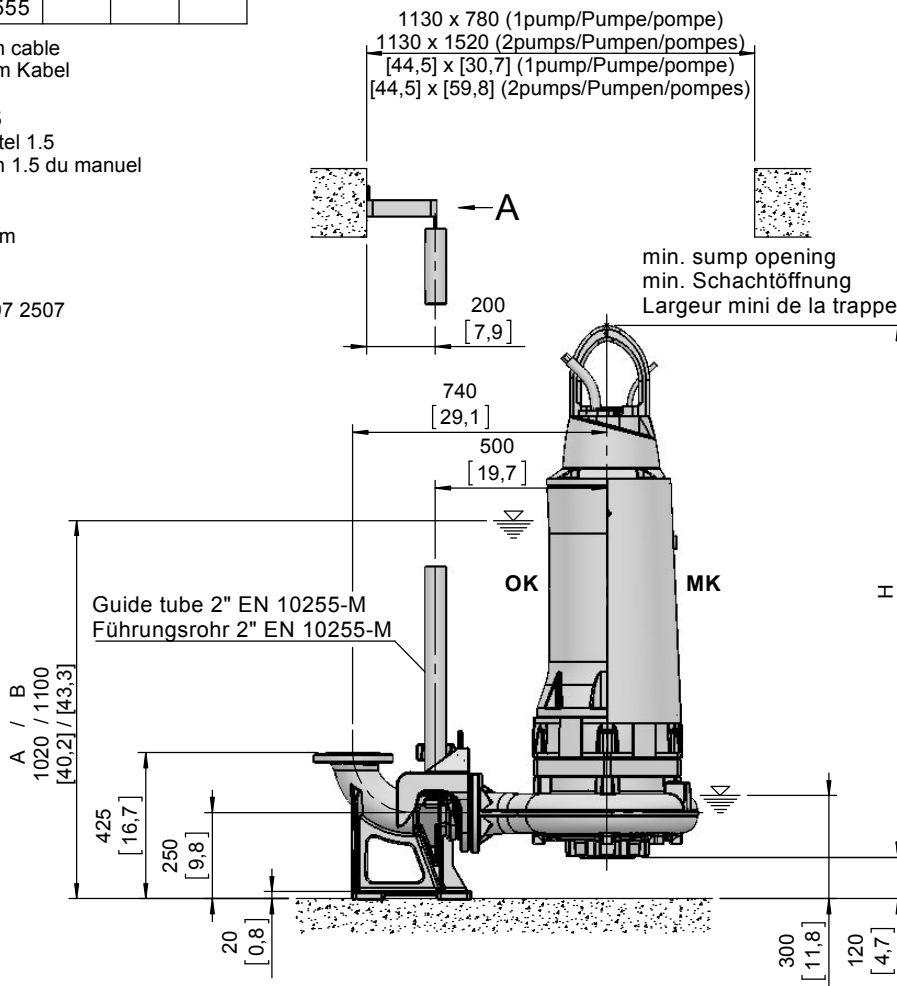
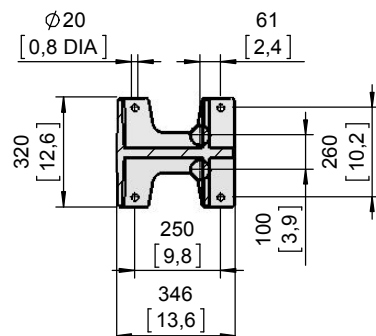
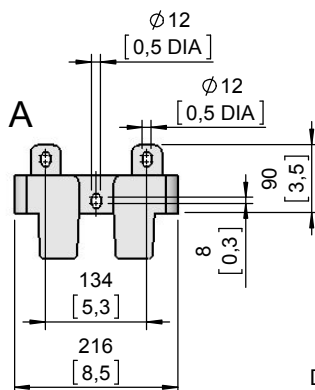


Weight: Includes pump, slider bracket and 10m cable  
Gewicht: Beinhaltet Pumpe, Halterung und 10m Kabel  
Poids: Pompe, coulisseau et 10m de câble

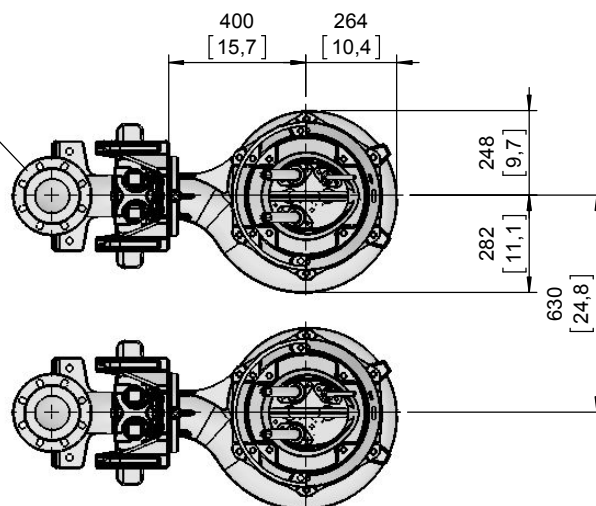
For different cable length see IOM, chapter 1.5  
Für abweichende Kabellänge siehe EBA, Kapitel 1.5  
Pour des longueurs supérieures, voir la section 1.5 du manuel

For hex.-woodscrew 0,4\*2,8 plug 0,5 DIA  
Für Skt.-Holzschr. 10\*70 Dübel Ø12mm  
Pour vis à bois hexagonale 10\*70 trou de 12mm

Installation instructions "pedestal" 1 597 2507  
Installationsanweisung "Fußstück" 1 597 2507  
Instruction d'installation du "pied d'assise" 1 597 2507



DN100, DIN EN 1092-2, PN16  
4" ANSI B16.1 CLASS 125

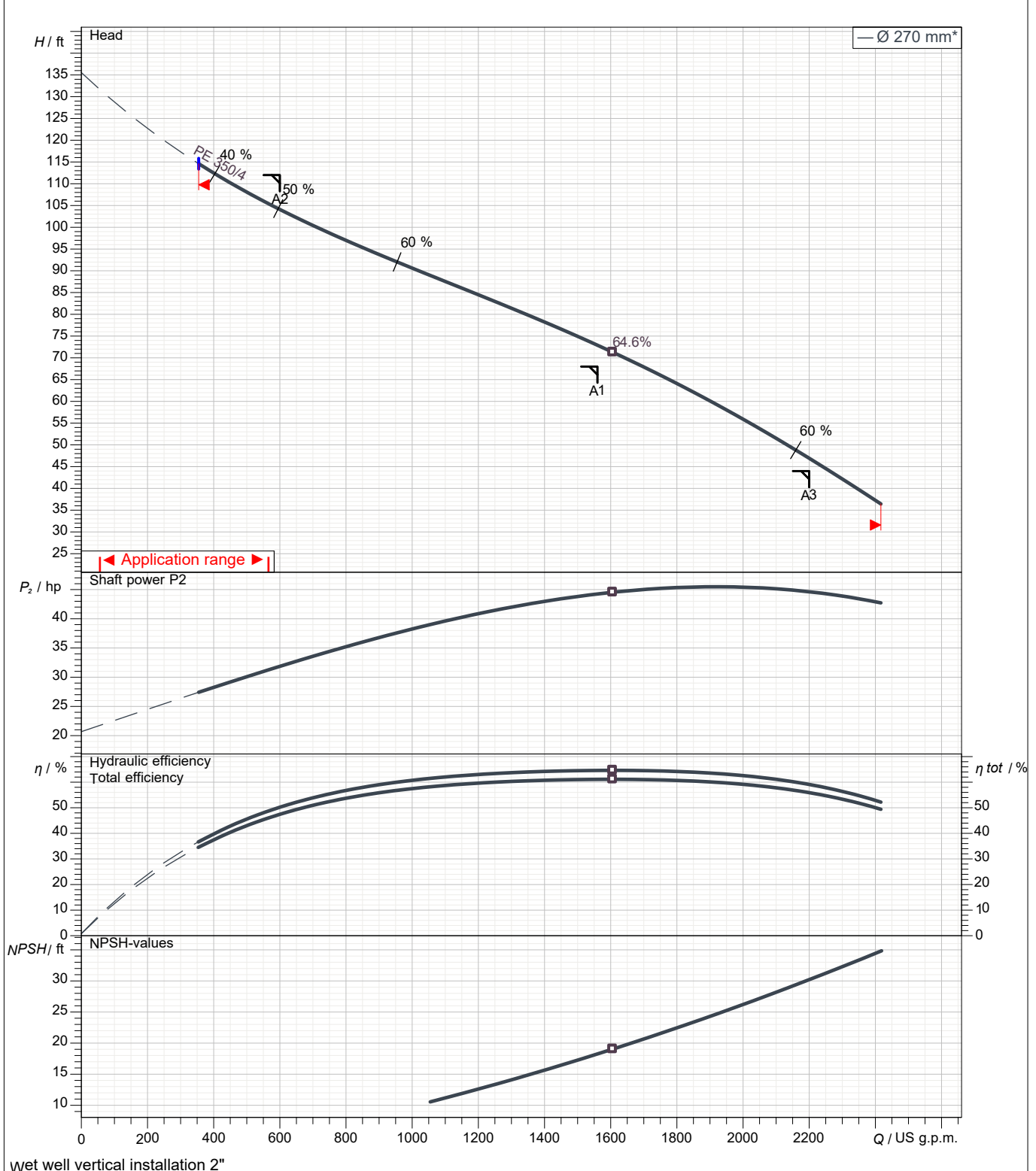
[ mm ]  
[ inch ]

OK = Ohne Kühlmantel  
Without cooling jacket  
Sans enveloppe de refroidissement

MK = Mit Kühlmantel  
With cooling jacket  
Avec enveloppe de refroidissement



Curve number		<div>Pump performance curves</div> <div>XFP150J-CH2 60 HZ</div>				<div>SULZER</div>	
Reference curve XFP150J-CH2 60 HZ							
					Discharge DN150	Frequency 60 Hz	
Density 62.31 lb/ft³	Viscosity 1.077E-5 ft²/s	Test Standard ISO 9906, HI 11.6/14.6 Gr 2B			Rated speed 1784 rpm	Date 2022-10-31	
Flow 1560 US g.p.m.	Head 68 ft	Shaft power	Power input	Rated power P2 46.9 hp	Hyd. efficiency	NPSH	

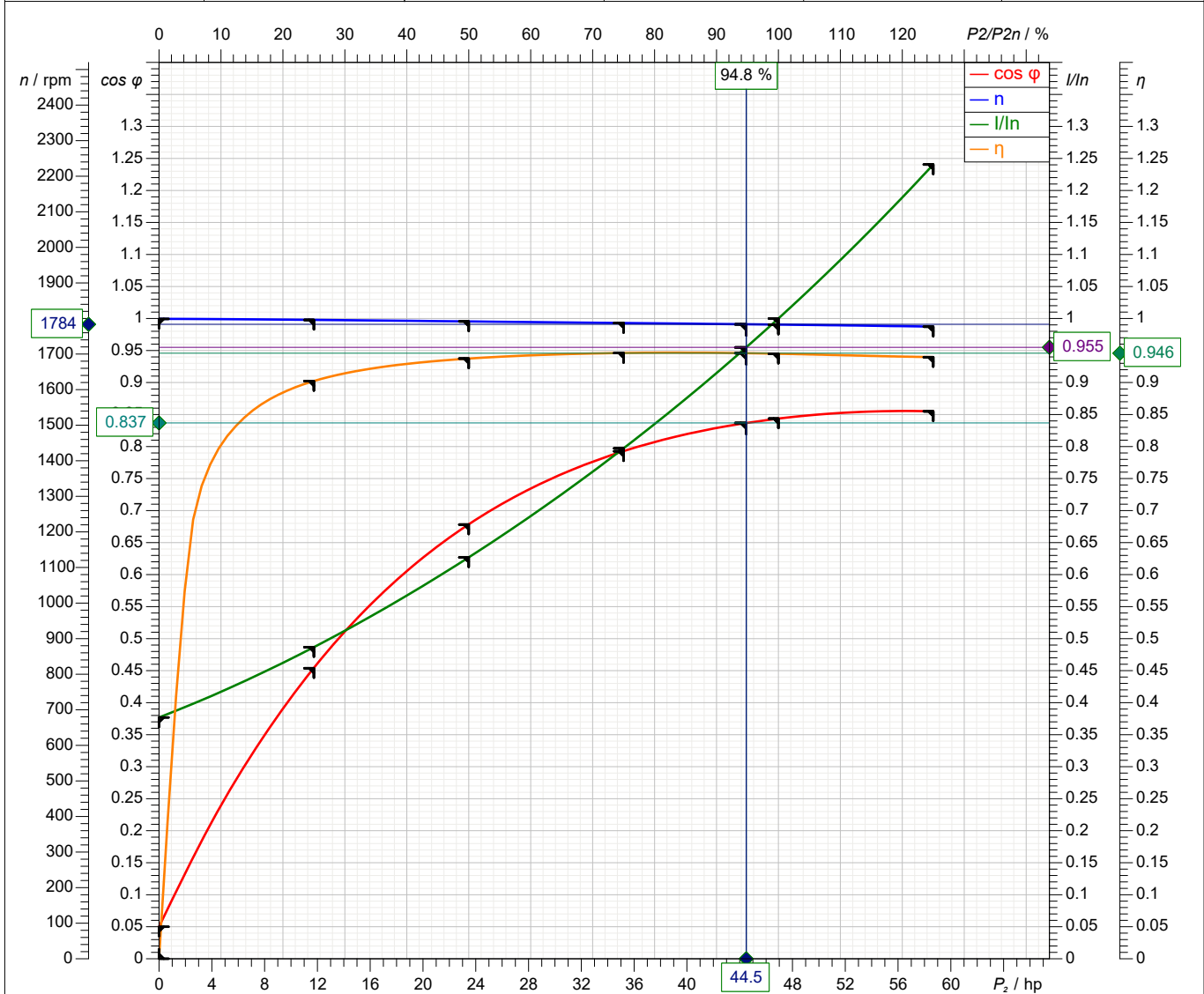


Impeller size 270 mm	N° of vanes 2	Impeller 2-vane channel impeller	Solid size 80 x 100 mm	Revision
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Sulzer reserves the right to change any data and dimensions without prior notice  
and can not be held responsible for the use of information contained in this software.

Spaix® 5-2022.2 - 2022/10/13 (Build 543), 64 bit  
data version October 22.1

Rated power 46.9 hp	Service factor 1	Nominal Speed 1780 rpm	Number of poles 4	Rated voltage 460 V	Date 2022-10-31
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Symbol	No load	25 %	50 %	75 %	100 %	125 %
P <sub>2</sub> / hp	0	11.73	23.47	35.2	46.94	58.67
P <sub>1</sub> / hp	1.11	13	25.03	37.2	49.67	62.44
I / A	20.77	26.82	34.54	43.93	55.1	68.35
cos	0.05003	0.4539	0.6783	0.7927	0.8437	0.855
n / rpm	1799	1796	1792	1787	1783	1777
s / %	0.0571	0.2145	0.4596	0.7068	0.9522	1.276
M / lbf ft	0	34.31	68.8	103.4	138.3	173.4
/ %	0	90.24	93.75	94.62	94.49	93.97

Tolerance according to VDE 0530 T1 12.84 for rated power

Starting current 452 A	Starting torque 387 lbf ft	Moment of inertia 8.51 lb ft <sup>2</sup>	No. starts per hour 15
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# TECHNICAL DATA

## 6" ABS XFP PUMP

XFP 150J-CH2  
4 Pole, 3 Phase, PE4

Date: 06/10

Dwg: DS-E02-032 Rev: 2

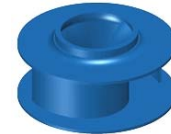
### Submersible Motor Specifications, PE4 Frame

Motor Design		NEMA design B, squirrel cage induction	
Motor Type		Fully enclosed Premium Efficiency submersible, IP68 protection rating	
Motor Efficiency Standard and Rating		IEC 60034-30, IE3 rating	
Motor Efficiency Test Protocol		IEC 60034-2-1	
Insulation Material		Class H, 180°C (356°F), copper windings	
Motor Filling Medium		Air	
Temperature Rise		Class A	
Maximum Fluid Temperature		40°C (104°F) continuous, 50°C (122°F) intermittent	
Optional Cooling System		Closed-loop, non-toxic glycol/water mixture (⅓ / ⅔)	
Motor Protection	Thermal	STD	Normally closed bimetallic switch in each phase, connected in series, 140°C (284°F), +/- 5 °C opening temperature
		OPT	STD plus: upper and lower bearing bimetallic switches or 100Ω RTDs (PT100)
	Leakage	STD	ABS Sealminder moisture detection probe in seal sensing chamber
		OPT	STD plus: probes in motor housing and junction chamber
Sensing Chamber Filling Medium		Air	
Bearing Type	Upper	Cylindrical roller permanently lubricated	
	Lower	Dual angular contact ball bearings plus single cylindrical roller bearing, permanently lubricated	
Motor Starter Types		Suitable for use with across the line, electronic soft starters, and PWM type Variable Frequency Drives*	
Maximum Starts per Hour		15, evenly spaced	
Inverter Duty Rating		Motors meet NEMA MG1, part 31 requirements	
Maximum Submergence		20 meters (65 feet)	
Available Voltages		230, 460, 600 (consult factory for other voltages)	
Voltage Tolerance from Rated		+/-10%	
Agency Approvals		Factory Mutual, CSA	
Explosion Proof Rating		NEC 500 Class 1, Division 1, Group C & D, Class T3C max surface temp	

\*Output filters may be required on VFDs. See document DS-E00-001 for details.



ABS submersible sewage pump XFP  
Part of the ABS EffeX range



Premium Efficiency  
without Compromise

### Motor Ratings, PE4 Frame

Motor Model	Input Power (P1)	Rated Power Output (P2)	Nominal RPM	Rated Voltage	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	NEMA Service Factor	Motor Efficiency at % Load			Power Factor at % Load		
									100	75	50	100	75	50
PE 250/4	26.7 kW	25 kW 33.5 HP	1785	230 460 600	79.9 40 60.6	648 324 248	J	1.3	93.6	93.1	91.6	.84	.79	.68
PE 350/4	37.1 kW	34.9 kW 47 HP	1785	230 460 600	110 55.1 42.2	904 452 347	J	1.3	94.5	94.6	93.8	.84	.79	.68
PE 430/4	45.3 kW	43 kW 58 HP	1780	230 460 600	137 68.7 52.7	1224 612 469	K	1.3	95	94.8	94	.83	.77	.64
PE 520/4	54.7 kW	52 kW 70 HP	1780	230 460 600	163 81.4 62.4	1400 700 537	J	1.3	95.1	95.2	94.6	.84	.79	.67

**SULZER**



# TECHNICAL DATA

## 6" ABS XFP PUMP

XFP 150J-CH2  
4 Pole, 3 Phase, PE4

Date: 06/10  
Dwg: DS-E02-032 Rev: 2

### Cable Data, PE4 Frame

	Motor	Motor Voltage	Cable Qty	Cable Type	Cable Nominal Dia +/- .5mm (.02")
Power Cable	PE 250/4	230 volt	1	G-GC 4-3	30.2mm (1.19") diameter
		460 volt	1	G-GC 8-3	24.6mm (0.97") diameter
		600 volt	1	G-GC 8-3	24.6mm (0.97") diameter
	PE 350/4	230 volt	1	G-GC 2-3	34.1mm (1.3") diameter
		460 volt	1	G-GC 6-3	26.6mm (1.05") diameter
		600 volt	1	G-GC 8-3	24.6mm (0.97") diameter
	PE 430/4	230 volt	1	G-GC 1/0-3	41.9mm (1.65") diameter
		460 volt	1	G-GC 4-3	30.2mm (1.19") diameter
		600 volt	1	G-GC 6-3	26.6mm (1.05") diameter
	PE 520/4	230 volt	1	G-GC 2/0-3	43.9mm (1.73") diameter
		460 volt	1	G-GC 4-3	30.2mm (1.19") diameter
		600 volt	1	G-GC 6-3	26.6mm (1.05") diameter
Control Cable	All	Standard*	1	SOOW 16/4	10.67mm (.42") diameter
		Full monitoring*	1	SOOW 16/8	14.6mm (0.575") diameter
		Full monitoring w/ RTDs*	1	SOOW 16/12	17.3mm (0.68") diameter
Cable Length	Standard: 15m (49 feet)		Optional: 5m (16 feet) increments up to 30m (98 feet) - Consult Factory for Longer Lengths		

\* See motor protection on page 1.

### Pump Data

Discharge Size	6" flanged, compatible with 6" class 125 ANSI flanges				
Suction Size	6" flanged, compatible with 6" class 125 ANSI flanges, threaded for 8x3/4-10 UNC bolts, 30mm (1.18") deep				
Volute pressure rating	10 bar (145 psi)				
Impeller Type	channel, 2-vane, w/ Seal Protection System				
Impeller Size	260	295	325		
Solids Passage Size	80x100mm (3.1x3.9")	80x100mm (3.1x3.9")	80x100mm (3.1x3.9")		
Impeller DIA	260mm (10.2")	295mm (11.6")	325mm (12.8")		
Impeller Weight	20.9 Kg (46 lb)	23.6 Kg (52 lb)	25 Kg (55 lb)		
Min Recommended Flow, GPM	500	550	600		

### Materials of Construction

	Standard	Optional
Motor and Intermediate Housing	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Optional Cooling Jacket	Steel 1.0036 (ASTM A-570, Grade D)	
Seal Plate	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Impeller	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	Duplex Stainless Steel 1.4460 (AISI 329)
Volute	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Impeller Wear Ring		Stainless Steel 1.4571 (AISI 316Ti)
Volute Wear Ring	Cast Iron EN-GJL-300 (ASTM A-48, Class 40B)	Stainless Steel 1.4581 (AISI 318)
Cable Entry Casting	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Pump and Motor Shaft	Stainless Steel 1.4021 (AISI 420)	Duplex Stainless Steel 1.4462 (UNS S31803)
External Hardware	Stainless Steel 1.4401 (AISI 316)	
Lifting Hoop	Ductile Iron EN-GJS-400-18 (ASTM A-536; 60-40-18)	Duplex Stainless Steel 1.4460 (AISI 329)
O-Rings and Cable Glands	Nitrile (Buna-N)	Viton®
Tandem	Silicon Carbide / Silicon Carbide, Nitrile, 316 SS	Silicon Carbide / Silicon Carbide, Viton®, 316 SS
Mechanical Seal	Silicon Carbide / Silicon Carbide, Nitrile, 316 SS	
Lower Bearing Lip Seal	Nitrile (Buna-N) covered steel	
Coating	Two part epoxy, black, 100µm (3.9 mil) DFT	Two part epoxy, black, 200µm (7.9 mil) or 360 µm (14.2 mil); Coal tar epoxy, black, 200 µm (7.9 mil); Non-toxic epoxy, 200 µm (7.9 mil)

### General Data

	PE 250/4	PE 350/4	PE 430/4	PE 520/4
Overall Height	1632mm (64.3")	1623mm (64.3")	1712mm (67.4")	1712mm (67.4")
Pump Weight	462 kg (1019 lb)	487 kg (1074 lb)	517 kg (1140 lb)	537 kg (1184 lb)

**SULZER**



No: M-02.3024 - 02 2

Dat/Nam.: 01.02.2017 / K. Srb

Cad Code: M\_023024

Technical changes reserved  
Änderungen vorbehalten  
Sous réserve de modifications**XFP 150J-CH2**

Dimension sheet PE4 WET WELL Installation

Maßblatt PE4 Nassinstallation

Plan d'encombrement PE4 installation submersible

**SULZER**

Type Typ Type  60Hz	Weight Gewicht Poids  OK		Weight Gewicht Poids  MK		H		Size
	(~kg)	(~lb)	(~kg)	(~lb)	(mm)	(inch)	
PE 250/4-J-60	565	1246	605	1334	1470	57.9	A
PE 350/4-J-60	600	1323	640	1411			
PE 430/4-J-60	635	1400	680	1499	1550	61.0	B
PE 520/4-J-60	665	1466	710	1566			
PE 210/6-J-60	570	1257	610	1345	1470	57.9	A
PE 250/6-J-60	610	1345	650	1433			
PE 350/6-J-60	655	1444	700	1544	1550	61.0	B
PE 430/6-J-60	670	1477	715	1577			

Weight: Includes pump, slider bracket and 10m cable  
Gewicht: Beinhaltet Pumpe, Halterung und 10m Kabel  
Poids: Pompe, coulisseau et 10m de câble

For different cable length see IOM, chapter 1.5

Für abweichende Kabellänge siehe EBA, Kapitel 1.5

Pour des longueurs supérieures, voir la section 1.5 du manuel

For hex.-woodscrew 0,4\*2,8 plug 0,5 DIA

Für Skt.-Holzschr. 10\*70 Dübel Ø12mm

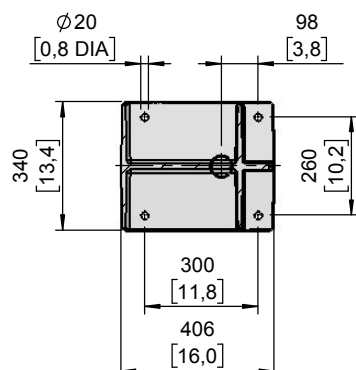
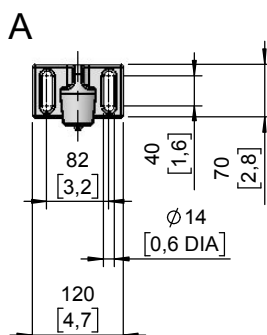
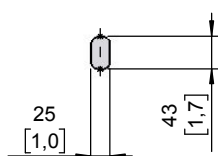
Pour vis à bois hexagonale 10\*70 trou de 12mm

Installation instructions "pedestal" 1 597 2507

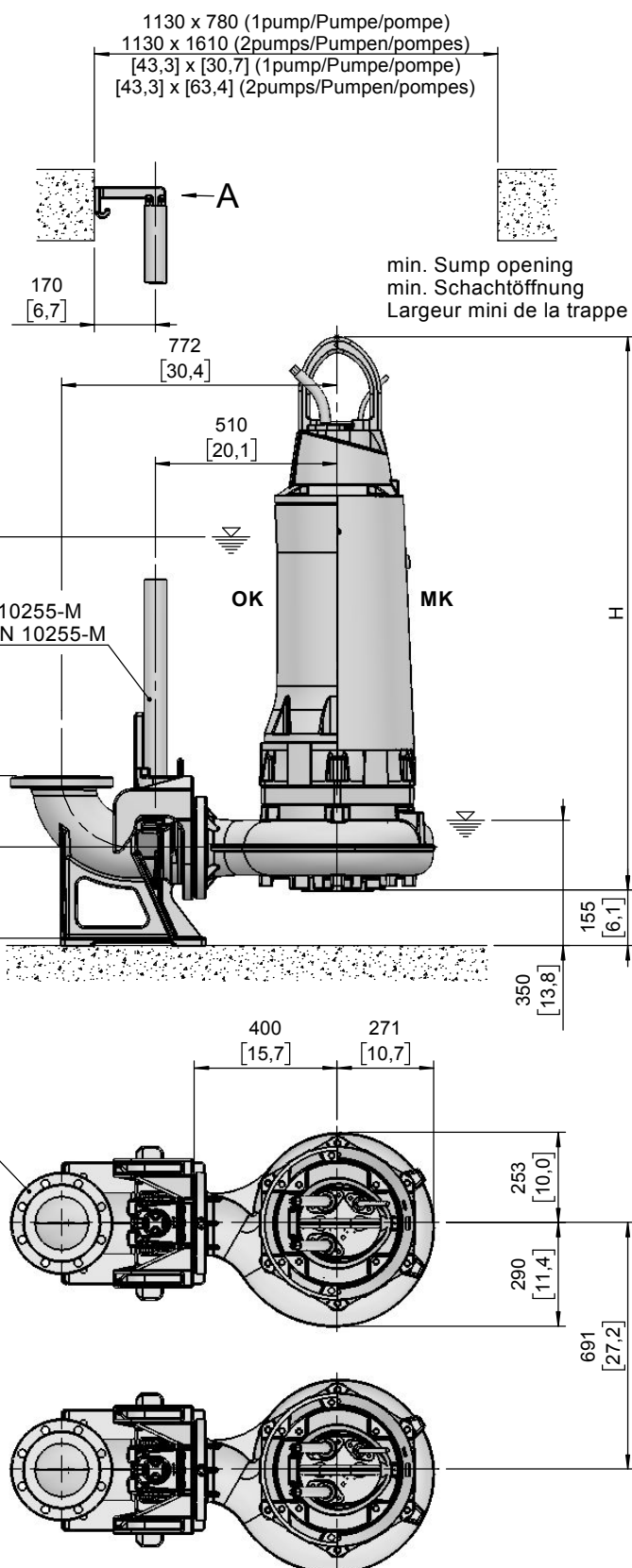
Installationsanweisung "Fußstück" 1 597 2507

Instruction d'installation du "pied d'assise" 1 597 2507

Lifting hoop cross section  
Fangbügel-Querschnitt  
Section de l'anse de levage



Guide tube 2" EN 10255-M  
Führungsrohr 2" EN 10255-M



min. Sump opening  
min. Schachtoffnung  
Largeur mini de la trappe

OK = Ohne Kühlmantel  
Without cooling jacket  
Sans enveloppe de refroidissement

MK = Mit Kühlmantel  
With cooling jacket  
Avec enveloppe de refroidissement

[ mm ]  
[ inch ]



**From:** [Howard Tuttle](#)  
**To:** [Luis Acosta](#); [Shane Bailey](#)  
**Subject:** RE: Grundfos Drawdown  
**Date:** Monday, February 13, 2023 11:02:35 AM

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**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Luis,

As we spoke before, we are unable to get new pumps for the old 42HP pump. If you want to send me your conditions of service for the 42HP pumps. I will do my best to look up the cross over pump for you. Just want to make sure we don't make any mistakes

Thanks...

***Best regards,***

***Howard Tuttle***

FJNugent-logo



***F. J. Nugent & Associates Inc***  
***269 Hunt Park Cove***  
***Longwood, FL 32750***  
***Office: 407-936-1139***  
***Cell: 407-761-7494***  
***Fax: 407-936-1640***



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**From:** Luis Acosta <LAcosta@Ocalafl.org>  
**Sent:** Monday, February 13, 2023 7:14 AM  
**To:** Howard Tuttle <howard@nugentco.com>; Shane Bailey <SBailey@Ocalafl.org>  
**Subject:** RE: Grundfos Drawdown

Following week, I be out in training all week. Regarding the drawdown, why is it necessary? We have flow data that we could use if is in regard to the 42 HP.

Regards,

Luis Acosta

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**From:** Howard Tuttle <[howard@nugentco.com](mailto:howard@nugentco.com)>  
**Sent:** Sunday, February 12, 2023 2:57 PM  
**To:** Shane Bailey <[SBailey@Ocalafl.org](mailto:SBailey@Ocalafl.org)>; Luis Acosta <[LAcosta@Ocalafl.org](mailto:LAcosta@Ocalafl.org)>  
**Subject:** RE: Grundfos Drawdown

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Shane,

How does the following week look? I am available all week. Let me know if you can do it then

Thanks...

***Best regards,***

***Howard Tuttle***

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**From:** Shane Bailey <[SBailey@Ocalafl.org](mailto:SBailey@Ocalafl.org)>  
**Sent:** Friday, February 10, 2023 8:45 AM  
**To:** Howard Tuttle <[howard@nugentco.com](mailto:howard@nugentco.com)>; Luis Acosta <[LAcosta@Ocalafl.org](mailto:LAcosta@Ocalafl.org)>  
**Subject:** RE: Grundfos Drawdown

Luis, we have training Wednesday and Thursday and you have LOM Training on Tuesday.

Thank You,  
Shane Bailey  
Water Resources-Central Maintenance Supervisor  
352-572-0483

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**From:** Howard Tuttle <[howard@nugentco.com](mailto:howard@nugentco.com)>  
**Sent:** Thursday, February 9, 2023 3:06 PM  
**To:** Luis Acosta <[LAcosta@Ocalafl.org](mailto:LAcosta@Ocalafl.org)>; Shane Bailey <[SBailey@Ocalafl.org](mailto:SBailey@Ocalafl.org)>  
**Subject:** Grundfos Drawdown

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Hello Luis,

Can you let me know what day works best for you next week? We would like to come up and do the drawdown test on the 42HP stations you have. Let's take a look and see what pump would be best for those stations. The best days for me would be Tuesday or Thursday. We can meet at your shop early in the morning and then head out to do the drawdowns. Please let me know if we can get this scheduled.

Your pump is at the rewind shop. We should have that back in 15 working days. Then we will be able to give you a date as to when we will get it back to you.

We are looking forward to seeing you next week

Thanks...

***Best regards,***

***Howard Tuttle***

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