

INVITATION TO BID

Bid Invitation Number: 40-2013

Date of Issue: 03/28/2013

Sealed bids will be received in the office of the Division of Central Purchasing, 200 East Main Street, Lexington, Kentucky, until **2:00 PM**, prevailing local time on **04/11/2013**. Bids must be received by the above-mentioned date and time. Mailed bids should be sent to:

**Division of Central Purchasing
200 East Main Street, Room 338
Lexington, KY 40507, (859) 258-3320**

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

All bids must have the company name and address, bid invitation number, and the commodity/service on the outside of the envelope.

Bids are to include all shipping costs to the point of delivery located at: 131 Lisle Industrial Ave., Lex., 40511

Bid Security Required: Yes No Performance Bond Required: Yes No
Cashier Check, Certified Check, Bid Bond (Personal checks and company checks will not be acceptable).

Quantity	Commodity/Service
Price Contract	Pump Station Hose, Fittings, & Motor Controller

<u>Check One:</u> <input type="checkbox"/> Bid Specifications Met <input type="checkbox"/> Exceptions to Bid Specifications. <i>Exceptions shall be itemized and attached to bid proposal submitted.</i>	<u>Proposed Delivery:</u> _____ days after acceptance of bid.
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<u>Procurement Card Usage</u> <input type="checkbox"/> Yes The Lexington-Fayette Urban County Government will be using Procurement Cards to purchase goods and services and also to make payments. Will you accept Procurement Cards? <input type="checkbox"/> No

Submitted by: Xylem Dewatering Solutions ^{dba:} Godwin Pumps
Firm
5329 Sissonville Drive
Address
Charleston, WV 25312
City, State & Zip

**Bid must be signed:
(original signature)**

Rick Reynolds *Branch Manager*
Signature of Authorized Company Representative - Title

Representative's Name (Typed or printed)

Rick Reynolds

Area Code - Phone - Extension

304-984-0200

Fax #

304-984-0665

E-Mail Address

rick.reynolds@xylem.com

The Affidavit in this bid must be completed before your firm can be considered for award of this contract.

AFFIDAVIT

Comes the Affiant, Rick Reynolds / Gavin Pappas and after being first duly sworn under penalty of perjury as follows:

1. His/her name is Rick Reynolds and he/she is the individual submitting the bid or is the authorized representative of

Branch Manager,

the entity submitting the bid (hereinafter referred to as "Bidder").

2. Bidder will pay all taxes and fees, which are owed to the Lexington-Fayette Urban County Government at the time the bid is submitted, prior to award of the contract and will maintain a "current" status in regard to those taxes and fees during the life of the contract.

3. Bidder will obtain a Lexington-Fayette Urban County Government business license, if applicable, prior to award of the contract.

4. Bidder has authorized the Division of Central Purchasing to verify the above-mentioned information with the Division of Revenue and to disclose to the Urban County Council that taxes and/or fees are delinquent or that a business license has not been obtained.

5. Bidder has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky within the past five (5) years and the award of a contract to the Bidder will not violate any provision of the campaign finance laws of the Commonwealth.

6. Bidder has not knowingly violated any provision of Chapter 25 of the Lexington-Fayette Urban County Government Code of Ordinances, known as "Ethics Act."

7. Bidder acknowledges that "knowingly" for purposes of this Affidavit means, with respect to conduct or to circumstances described by a statute or ordinance defining an offense, that a person is aware or should have been aware that his conduct is of that nature or that the circumstance exists.

Further, Affiant sayeth naught.

Rick Reynolds

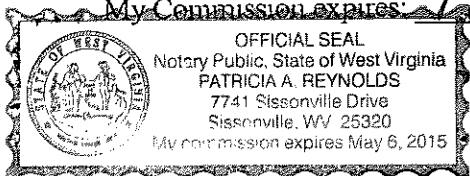
STATE OF State of West Virginia

COUNTY OF Kanawha

The foregoing instrument was subscribed, sworn to and acknowledged before me

by Rick Reynolds on this the 10th day of April, 2013.

My Commission expires: May 6, 2015



Patricia A. Reynolds
NOTARY PUBLIC, STATE AT LARGE

Please refer to Section II. Bid Conditions, Item "U" prior to completing this form.

I. GREEN PROCUREMENT

A. ENERGY

The Lexington-Fayette Urban County Government is committed to protecting our environment and being fiscally responsible to our citizens.

The Lexington-Fayette Urban County Government mandates the use of Energy Star compliant products if they are available in the marketplace (go to www.Energystar.gov). If these products are available, but not submitted in your pricing, your bid will be rejected as non-compliant.

ENERGY STAR is a government program that offers businesses and consumers energy-efficient solutions, making it easy to save money while protecting the environment for future generations.

Key Benefits

- These products use 25 to 50% less energy
- Reduced energy costs without compromising quality or performance
- Reduced air pollution because fewer fossil fuels are burned
- Significant return on investment
- Extended product life and decreased maintenance

B. GREEN SEAL CERTIFIED PRODUCTS

The Lexington-Fayette Urban County Government is also committed to using other environmentally friendly products that do not negatively impact our environment. Green Seal is a non-profit organization devoted to environmental standard setting, product certification, and public education.

Go to www.Greenseal.org to find available certified products. These products will have a reduced impact on the environment and on human health. The products to be used must be pre-approved by the LFUCG prior to commencement of any work in any LFUCG facility. If a Green Seal product is not available, the LFUCG must provide a signed waiver to use an alternate product. Please provide information on the Green Seal products being used with your bid response.

C. GREEN COMMUNITY

The Lexington-Fayette Urban County Government (LFUCG) serves as a principal, along with the University of Kentucky and Fayette County Public Schools, in the Bluegrass Partnership for a Green Community. The Purchasing Team component of the Partnership collaborates on economy of scale purchasing that promotes and enhances environmental initiatives. Specifically, when applicable, each principal is interested in obtaining best value products and/or services which promote environment initiatives via solicitations and awards from the other principals.

If your company is the successful bidder on this Invitation For Bid, do you agree to extend the same product/service pricing to the other principals of the Bluegrass Partnership for a Green Community (i.e. University of Kentucky and Fayette County Schools) if requested?

Yes No

II. Bid Conditions

- A. No bid may be withdrawn for a period of sixty (60) days after the date and time set for opening.
- B. No bid may be altered after the date and time set for opening. In the case of obvious errors, the Division of Central Purchasing may permit the withdrawal of a bid. The decision as to whether a bid may be withdrawn shall be that of the Division of Central Purchasing.
- C. Acceptance of this proposal shall be enactment of an Ordinance by the Urban County Council.
- D. The bidder agrees that the Urban County Government reserves the right to reject any and all bids for either fiscal or technical reasons, and to award each part of the bid separately or all parts to one vendor.
- E. Minor exceptions may not eliminate the bidder. The decision as to whether any exception is minor shall be entirely that of the head of the requisitioning Department or Division and the Director of the Division of Central Purchasing. The Urban County Government may waive technicalities and informalities where such waiver would best serve the interests of the Urban County Government.
- F. Manufacturer's catalogue numbers, trade names, etc., where shown herein are for descriptive purposes and are to guide the bidder in interpreting the standard of quality, design, and performance desired, and shall not be construed to exclude proposals based on furnishing other types of materials and/or services. However, any substitution or departure proposed by the bidder must be clearly noted and described; otherwise, it will be assumed that the bidder intends to supply items specifically mentioned in this Invitation for Bids.
- G. The Urban County Government may require demonstrations of the materials proposed herein prior to acceptance of this proposal.
- H. Bids must be submitted on this form and must be signed by the bidder or his authorized representative. Unsigned bids will not be considered.
- I. Bids must be submitted prior to the date and time indicated for opening. Bids submitted after this time will not be considered.
- J. All bids mailed must be marked on the face of the envelope:

"Bid on #40-2013 – Pump Station Hose, Fittings, & Motor Controller"

and addressed to: Division of Central Purchasing
 200 East Main Street, Room 338
 Lexington, Kentucky 40507

The Lexington-Fayette Urban County Government assumes no responsibility for bids that are not addressed and delivered as indicated above. Bids that are not delivered to the Division of Central Purchasing by the stated time and date will be rejected.

- K. Bidder is requested to show both unit prices and lot prices. In the event of error, the unit price

shall prevail.

- L. A certified check or Bid Bond in the amount of N/A percent of the bid price must be attached hereto. This check must be made payable to the Lexington-Fayette Urban County Government, and will be returned when the material and/or services specified herein have been delivered in accordance with specifications. In the event of failure to perform within the time period set forth in this bid, it is agreed the certified check may be cashed and the funds retained by the Lexington-Fayette Urban County Government as liquidated damages. Checks of unsuccessful bidders will be returned when the bid has been awarded.
- M. The delivery dates specified by bidder may be a factor in the determination of the successful bidder.
- N. Tabulations of bids received may be mailed to bidders. Bidders requesting tabulations must enclose a stamped, self-addressed envelope with the bid.
- O. The Lexington-Fayette Urban County Government is exempt from Kentucky Sales Tax and Federal Excise Tax on materials purchased from this bid invitation. Materials purchased by the bidder for construction projects are not tax exempt and are the sole responsibility of the bidder.
- P. All material furnished hereunder must be in full compliance with OSHA regulations.
- Q. If more than one bid is offered by one party, or by any person or persons representing a party, all such bids shall be rejected.
- R. Signature on the face of this bid by the Bidder or his authorized representative shall be construed as acceptance of and compliance with all terms and conditions contained herein.
- S. The Entity (regardless of whether construction contractor, non-construction contractor or supplier) agrees to provide equal opportunity in employment for all qualified persons, to prohibit discrimination in employment because of race, color, creed, national origin, sex or age, and to promote equal employment through a positive, continuing program from itself and each of its sub-contracting agents. This program of equal employment opportunity shall apply to every aspect of its employment policies and practices.
- T. The Kentucky Equal Employment Opportunity Act of 1978 (KRS 45.560-45.640) requires that any county, city, town, school district, water district, hospital district, or other political subdivision of the state shall include in directly or indirectly publicly funded contracts for supplies, materials, services, or equipment hereinafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, age or national origin;*
- (2) The contractor will state in all solicitations or advertisements for employees placed by or on behalf of the contractors that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age or national origin;*

- (3) *The contractor will post notices in conspicuous places, available to employees and applicants for employment, setting forth the provisions of the non-discrimination clauses required by this section; and*
- (4) *The contractor will send a notice to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding advising the labor union or workers' representative of the contractor's commitments under the nondiscrimination clauses.*

The Act further provides:

KRS 45.610. Hiring minorities - Information required

- (1) *For the length of the contract, each contractor shall hire minorities from other sources within the drawing area, should the union with which he has collective bargaining agreements be unwilling to supply sufficient minorities to satisfy the agreed upon goals and timetable.*
- (2) *Each contractor shall, for the length of the contract, furnish such information as required by KRS 45.560 to KRS 45.640 and by such rules, regulations and orders issued pursuant thereto and will permit access to all books and records pertaining to his employment practices and work sites by the contracting agency and the department for purposes of investigation to ascertain compliance with KRS 45.560 to 45.640 and such rules, regulations and orders issued pursuant thereto.*

KRS 45.620. Action against contractor - Hiring of minority contractor or subcontractor

- (1) *If any contractor is found by the department to have engaged in an unlawful practice under this chapter during the course of performing under a contract or subcontract covered under KRS 45.560 to 45.640, the department shall so certify to the contracting agency and such certification shall be binding upon the contracting agency unless it is reversed in the course of judicial review.*
- (2) *If the contractor is found to have committed an unlawful practice under KRS 45.560 to 45.640, the contracting agency may cancel or terminate the contract, conditioned upon a program for future compliance approved by the contracting agency and the department. The contracting agency may declare such a contractor ineligible to bid on further contracts with that agency until such time as the contractor complies in full with the requirements of KRS 45.560 to 45.640.*
- (3) *The equal employment provisions of KRS 45.560 to 45.640 may be met in part by a contractor by subcontracting to a minority contractor or subcontractor. For the provisions of KRS 45.560 to 45.640, a minority contractor or subcontractor shall mean a business that is owned and controlled by one or more persons disadvantaged by racial or ethnic circumstances.*

KRS 45.630 Termination of existing employee not required, when

Any provision of KRS 45.560 to 45.640 notwithstanding, no contractor shall be required to terminate an existing employee upon proof that that employee was employed prior to the

date of the contract.

KRS 45.640 Minimum skills

Nothing in KRS 45.560 to 45.640 shall require a contractor to hire anyone who fails to demonstrate the minimum skills required to perform a particular job.

It is recommended that all of the provisions above quoted to be included as special conditions in each contract. In the case of a contract exceeding \$250,000, the contractor is required to furnish evidence that his work-force in Kentucky is representative of the available work-force in the area from which he draws employees, or to supply an Affirmative Action plan which will achieve such representation during the life of the contract.

- U. Any party, firm or individual submitting a proposal pursuant to this invitation must be in compliance with the requirements of the Lexington-Fayette Urban County Government regarding taxes and fees before they can be considered for award of this invitation and must maintain a "current" status with regard to those taxes and fees throughout the term of the contract. The contractor must be in compliance with Chapter 13 from the Code of Ordinances of the Lexington-Fayette Urban County Government. The contractor must be in compliance with Ordinance 35-2000 pursuant to contractor registration with the Division of Building Inspection. If applicable, said business must have a Fayette County business license.

Pursuant to KRS 45A.343 and KRS 45A.345, the contractor shall

- (1) Reveal any final determination of a violation by the contractor within the previous five year period pursuant to KRS Chapters 136 (corporation and utility taxes), 139 (sales and use taxes), 141 (income taxes), 337 (wages and hours), 338 (occupational safety and health of employees), 341 (unemployment and compensation) and 342 (labor and human rights) that apply to the contractor; and*
- (2) Be in continuous compliance with the above-mentioned KRS provisions that apply to the contractor for the duration of the contract.*

A contractor's failure to reveal the above or to comply with such provisions for the duration of the contract shall be grounds for cancellation of the contract and disqualification of the contractor from eligibility for future contracts for a period of two (2) years.

- V. Vendors who respond to this invitation have the right to file a notice of contention associated with the bid process or to file a notice of appeal of the recommendation made by the Director of Central Purchasing resulting from this invitation.

Notice of contention with the bid process must be filed within 3 business days of the bid/proposal opening by (1) sending a written notice, including sufficient documentation to support contention, to the Director of the Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his/her contention with the bid process. After consulting with the Commissioner

of Finance the Chief Administrative Officer and reviewing the documentation and/or hearing the vendor, the Director of Central Purchasing shall promptly respond in writing findings as to the compliance with bid processes. If, based on this review, a bid process irregularity is deemed to have occurred the Director of Central Purchasing will consult with the Commissioner of Finance, the Chief Administrative Officer and the Department of Law as to the appropriate remedy.

Notice of appeal of a bid recommendation must be filed within 3 business days of the bid recommendation by (1) sending a written notice, including sufficient documentation to support appeal, to the Director, Division of Central Purchasing or (2) submitting a written request for a meeting with the Director of Central Purchasing to explain his appeal. After reviewing the documentation and/or hearing the vendor and consulting with the Commissioner of Finance and the Chief Administrative Officer, the Director of Central Purchasing shall in writing, affirm or withdraw the recommendation.

III. Procurement Contract Bid Conditions

- A. The terms of this agreement shall be for 1 year from the date of acceptance of this contract by the Lexington-Fayette Urban County Government. This agreement may be extended for an additional 3 (1) year renewals upon the written agreement of the bidder and the Lexington-Fayette Urban County Government. Said agreement must be in writing and must be executed prior to the expiration of the current agreement.

- B. Price Changes (**Space Checked Applies**)
 - 1. Prices quoted in response to the Invitation shall be firm prices for the first 90 days of the Procurement Contract. After 90 days, prices may be subject to revision and such changes shall be based on general industry changes. Revision may be either increases or decreases and may be requested by either party. There will be no more than one (1) price adjustment per quarter. Requests for price changes shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.

 - (XXX) 2. Requests for price changes will only be allowed at the time of contract renewal. Requests shall be received in writing at least twenty (20) days prior to the effective date and are subject to written acceptance before becoming effective. Proof of the validity of a request for revision shall be responsibility of the requesting party. The Lexington-Fayette Urban County Government shall receive the benefit of any decline that the seller shall offer his other accounts.

 - 3. Procurement Level Contract

- C. If any contract item is not available from the vendor, the Lexington-Fayette Urban County Government, at its option, may permit the item to be back-ordered or may procure the item on the open market.

- D. All invoices must bear reference to the Lexington-Fayette Urban County Government Purchasing document numbers which are being billed.

- E. This contract may be canceled by either party thirty (30) days after delivery by canceling party of written notice of intent to cancel to the other contracting party.

- F. This contract may be canceled by the Lexington-Fayette Urban County Government if it is determined that the Bidder has failed to perform under the terms of this agreement, such cancellation to be effective upon receipt of written notice of cancellation by the Bidder.

- G. No substitutions for articles specified herein may be made without prior approval of the Division of Central Purchasing.

GENERAL PROVISIONS OF BID CONTRACT

By signing the below, bidder acknowledges that it understands and agrees with the following provisions related to its bid response and the provision of any goods or services to LFUCG upon selection by LFUCG pursuant to the bid request:

1. Bidder shall comply with all Federal, State & Local regulations concerning this type of service or good.
2. Failure to submit ALL forms and information required by LFUCG may be grounds for disqualification.
3. Addenda: All addenda, if any, must be considered by the bidder in making its response, and such addenda shall be made a part of the requirements of the bid contract. Before submitting a bid response, it is incumbent upon bidder to be informed as to whether any addenda have been issued, and the failure of the bidder to cover any such addenda may result in disqualification of that response.
4. Bid Reservations: LFUCG reserves the right to reject any or all bid responses, to award in whole or part, and to waive minor immaterial defects in proposals. LFUCG may consider any alternative proposal that meets its basic needs.
5. Liability: LFUCG is not responsible for any cost incurred by bidder in the preparation of its response.
6. Changes/Alterations: Bidder may change or withdraw a proposal at any time prior to the opening; however, no oral modifications will be allowed. Only letters, or other formal written requests for modifications or corrections of a previously submitted proposal which is addressed in the same manner as the bid response, and received by LFUCG prior to the scheduled closing time for receipt of bids, will be accepted. The bid response when opened, will then be corrected in accordance with such written request(s), provided that the written request is contained in a sealed envelope which is plainly marked "modifications of bid response".
7. Clarification of Submittal: LFUCG reserves the right to obtain clarification of any point in a bid or to obtain additional information from any bidder.
8. Bribery Clause: By his/her signature on its response, bidder certifies that no employee of his/hers, any affiliate or subcontractor, has bribed or attempted to bribe an officer or employee of the LFUCG.
9. Additional Information: While not necessary, the bidder may include any product brochures, software documentation, sample reports, or other documentation that may assist LFUCG in better understanding and evaluating the bid response. Additional documentation shall not serve as a substitute for other documentation which is required by the LFUCG to be submitted with

the bid response.

10. **Ambiguity, Conflict or other Errors:** If a bidder discovers any ambiguity, conflict, discrepancy, omission or other error in the bid request of LFUCG, it shall immediately notify LFUCG of such error in writing and request modification or clarification of the document if allowable by the LFUCG.
11. **Agreement to Bid Terms:** In submitting its bid response, the bidder agrees that it has carefully examined the specifications and all provisions relating to LFUCG's bid request, including but not limited to the bid contract. By submission of its bid response, bidder states that it understands the meaning, intent and requirements of LFUCG's bid request and agrees to the same. The successful bidder shall warrant that it is familiar with and understands all provisions herein and shall warrant that it can comply with them. No additional compensation to bidder shall be authorized for services, expenses, or goods reasonably covered under these provisions that the bidder omits from its bid response.
12. **Cancellation:** LFUCG may unilaterally terminate the bid contract with the selected bidder(s) at any time, with or without cause, by providing at least thirty (30) days advance written notice unless a different advance written notice period is negotiated prior to contract approval. Payment for services or goods received prior to termination shall be made by the LFUCG provided these goods or services were provided in a manner acceptable to the LFUCG. Payment for those goods and services shall not be unreasonably withheld.
13. **Assignment of Contract:** The selected bidder(s) shall not assign or subcontract any portion of the bid contract with LFUCG without the express written consent of LFUCG. Any purported assignment or subcontract in violation hereof shall be void. It is expressly acknowledged that LFUCG shall never be required or obligated to consent to any request for assignment or subcontract; and further that such refusal to consent can be for any or no reason, fully within the sole discretion of LFUCG.
14. **No Waiver:** No failure or delay by LFUCG in exercising any right, remedy, power or privilege hereunder, nor any single or partial exercise thereof, nor the exercise of any other right, remedy, power or privilege shall operate as a waiver hereof or thereof. No failure or delay by LFUCG in exercising any right, remedy, power or privilege under or in respect of this bid proposal or bid contract shall affect the rights, remedies, powers or privileges of LFUCG hereunder or shall operate as a waiver thereof.
15. **Authority to do Business:** Each bidder must be authorized to do business under the laws of the Commonwealth of Kentucky and must be in good standing and have full legal capacity to provide the goods or services specified in the bid proposal. Each bidder must have all necessary right and lawful authority to submit the bid response and enter into the bid contract for the full term hereof including any necessary corporate or other action authorizing the bidder to submit the bid response and enter into this bid contract. If requested, the bidder will provide LFUCG with a copy of a corporate resolution authorizing this action and/or a letter from an attorney confirming that the proposer is authorized to do business in the Commonwealth of Kentucky. All bid responses must be signed by a duly authorized officer, agent or employee of the bidder.

16. **Governing Law:** This bid request and bid contract shall be governed by and construed in accordance with the laws of the Commonwealth of Kentucky. In the event of any proceedings regarding this matter, the bidder agrees that the venue shall be the Fayette County Circuit Court or the U.S. District Court for the Eastern District of Kentucky, Lexington Division and that the bidder expressly consents to personal jurisdiction and venue in such Court for the limited and sole purpose of proceedings relating to these matters or any rights or obligations arising thereunder.
17. **Ability to Meet Obligations:** Bidder affirmatively states that there are no actions, suits or proceedings of any kind pending against bidder or, to the knowledge of the bidder, threatened against the bidder before or by any court, governmental body or agency or other tribunal or authority which would, if adversely determined, have a materially adverse effect on the authority or ability of bidder to perform its obligations under this bid response or bid contract, or which question the legality, validity or enforceability hereof or thereof.
18. Bidder understands and agrees that its employees, agents, or subcontractors are not employees of LFUCG for any purpose whatsoever. Bidder is an independent contractor at all times related to the bid response or bid contract.
19. If any term or provision of this bid contract shall be found to be illegal or unenforceable, the remainder of the contract shall remain in full force and such term or provision shall be deemed stricken.

Thom Reynolds
Signature

4-10-13
Date

**RISK MANAGEMENT PROVISIONS
INSURANCE AND INDEMNIFICATION**

Bid #40-2013 – Pump Station Hose, Fittings, & Motor Controller

INDEMNIFICATION AND HOLD HARMLESS PROVISION

- (1) It is understood and agreed by the parties that Vendor hereby assumes the entire responsibility and liability for any and all damages to persons or property caused by or resulting from or arising out of any act or omission on the part of Vendor or its employees, agents, servants, owners, principals, licensees, assigns or subcontractors of any tier (hereinafter "Vendor") under or in connection with this agreement and/or the provision of goods or services and the performance or failure to perform any work required thereby.
- (2) Vendor shall indemnify, save, hold harmless and defend the Lexington-Fayette Urban County Government and its elected and appointed officials, employees, agents, volunteers, and successors in interest (hereinafter "LFUCG") from and against all liability, damages, and losses, including but not limited to, demands, claims, obligations, causes of action, judgments, penalties, fines, liens, costs, expenses, interest, defense costs and reasonable attorney's fees that are in any way incidental to or connected with, or that arise or are alleged to have arisen, directly or indirectly, from or by Vendor's performance or breach of the agreement and/or the provision of goods or services provided that: (a) it is attributable to personal injury, bodily injury, sickness, or death, or to injury to or destruction of property (including the loss of use resulting therefrom), or to or from the negligent acts, errors or omissions or willful misconduct of the Vendor; and (b) not caused solely by the active negligence or willful misconduct of LFUCG.
- (3) In the event LFUCG is alleged to be liable based upon the above, Vendor shall defend such allegations and shall bear all costs, fees and expenses of such defense, including but not limited to, all reasonable attorneys' fees and expenses, court costs, and expert witness fees and expenses, using attorneys approved in writing by LFUCG, which approval shall not be unreasonably withheld.
- (4) These provisions shall in no way be limited by any financial responsibility or insurance requirements, and shall survive the termination of this agreement.

FINANCIAL RESPONSIBILITY

BIDDER/VENDOR understands and agrees that it shall, prior to final acceptance of its bid and the commencement of any work, demonstrate the ability to assure compliance with the above Indemnity provisions and these other risk management provisions.

INSURANCE REQUIREMENTS

YOUR ATTENTION IS DIRECTED TO THE INSURANCE REQUIREMENTS BELOW, AAND YOU MAY NEED TO CONFER WITH YOUR INSURANCE AGENTS, BROKERS, OR CARRIERS TO DETERMINE IN ADVANCE OF SUBMISSION OF A RESPONSE THE AVAILABILITY OF THE INSURANCE COVERAGES AND ENDORSEMENTS REQUIRED HEREIN. IF YOU FAIL TO COMPLY WITH THE INSURANCE REQUIREMENTS BELOW, YOU MAY BE DISQUALIFIED FROM AWARD OF THE CONTRACT.

Required Insurance Coverage

Vendor shall procure and maintain for the duration of this contract the following or equivalent insurance policies at no less than the limits shown below and cause its subcontractors to maintain similar insurance with limits acceptable to LFUCG in order to protect LFUCG against claims for injuries to persons or damages to property which may arise from or in connection with the provision of equipment or goods or the performance of the work or services hereunder by Vendor. The cost of such insurance shall be included in any bid:

<u>Coverage</u>	<u>Limits</u>
General Liability (Insurance Services Office Form CG 00 01)	\$1 million per occurrence, \$2 million aggregate or \$2 million combined single limit
Commercial Automobile Liability (Insurance Services Office Form CA 0001)	combined single, \$1 million per occurrence
Worker's Compensation	Statutory
Employer's Liability	\$500,000.00

The policies above shall contain the following conditions:

- a. All Certificates of Insurance forms used by the insurance carrier shall be properly filed and approved by the Department of Insurance for the Commonwealth of Kentucky. LFUCG shall be named as an additional insured in the General Liability Policy and Commercial Automobile Liability Policy using the Kentucky DOI approved forms.
- b. The General Liability Policy shall be primary to any insurance or self-insurance retained by LFUCG.
- c. The General Liability Policy shall include a Products Liability endorsement unless it is deemed not to apply by LFUCG.
- d. LFUCG shall be provided at least 30 days advance written notice via certified mail, return receipt requested, in the event any of the required policies are canceled or non-renewed.
- e. Said coverage shall be written by insurers acceptable to LFUCG and shall be in a form acceptable to LFUCG. Insurance placed with insurers with a rating classification of no less than Excellent (A or A-) and a financial size category of no less than VIII, as defined by the most current Best's Key Rating Guide shall be deemed automatically acceptable.

Renewals

After insurance has been approved by LFUCG, evidence of renewal of an expiring policy must be submitted to LFUCG, and may be submitted on a manually signed renewal endorsement form. If the policy or carrier has changed, however, new evidence of coverage must be submitted in accordance with these Insurance Requirements.

Deductibles and Self-Insured Programs

IF YOU INTEND TO SUBMIT A SELF-INSURANCE PLAN IT MUST BE FORWARDED TO LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, DIVISION OF RISK MANAGEMENT, 200 EAST MAIN STREET, LEXINGTON, KENTUCKY 40507 NO LATER THAN A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO THE RESPONSE DATE. Self-insurance

programs, deductibles, and self-insured retentions in insurance policies are subject to separate approval by Lexington-Fayette Urban County Government's Division of Risk Management, upon review of evidence of Vendor's financial capacity to respond to claims. Any such programs or retentions must provide LFUCG with at least the same protection from liability and defense of suits as would be afforded by first-dollar insurance coverage. If Vendor satisfies any portion of the insurance requirements through deductibles, self-insurance programs, or self-insured retentions, Vendor agrees to provide Lexington-Fayette Urban County Government, Division of Risk Management, the following data prior to the final acceptance of bid and the commencement of any work:

- a. Latest audited financial statement, including auditor's notes.
- b. Any records of any self-insured trust fund plan or policy and related accounting statements.
- c. Actuarial funding reports or retained losses.
- d. Risk Management Manual or a description of the self-insurance and risk management program.
- e. A claim loss run summary for the previous five (5) years.
- f. Self-Insured Associations will be considered.

Verification of Coverage

Vendor agrees to furnish LFUCG with all applicable Certificates of Insurance signed by a person authorized by the insurer to bind coverage on its behalf prior to final award, and if requested, shall provide LFUCG copies of all insurance policies, including all endorsements.

Right to Review, Audit and Inspect

Vendor understands and agrees that LFUCG may review, audit and inspect any and all of its records and operations to insure compliance with these Insurance Requirements.

DEFAULT

Vendor understands and agrees that the failure to comply with any of these insurance, safety, or loss control provisions shall constitute default and that LFUCG may elect at its option any single remedy or penalty or any combination of remedies and penalties, as available, including but not limited to purchasing insurance and charging Vendor for any such insurance premiums purchased, or suspending or terminating the work.

00384322

Suction and Discharge Hose, Related Fittings, & Motor Controller

The Lexington Fayette Urban County Government Division of Water Quality is seeking unit price bids for 4" suction and discharge hose, suction strainers, quick disconnect reducers, connectors, and motor controller as per the following specifications. All connectors shall be Bauer type unless specified otherwise.

1. General

Vendor must submit manufacturer's data and specifications and must be approved by the LFUCG Division of Water Quality before bids are accepted.

All materials and items must be guaranteed for a period of 1 year or more.

Vendor must submit copies of his product specifications to show specification compliance to products listed. **Any deviations must be marked and explained.**

2. Specifications

Discharge Hose, Suction Hose and Hose Couplings

Suction Hose and Discharge Hose Ball and Joint Fitting - Material for pipe fittings shall be high tensile, cold rolled strip steel, electronically welded, and hot galvanized, with a minimum zinc coating of 500GR/M2.

Suction Hose - Working pressure shall be vacuum tight for pump suction and rated according to the following schedule, 70 psi for diameters 4" through 8"

Suction Hose - Hydrostatic test shall be 1.5 times the working pressure.

Suction Hose and Discharge Hose Ball and Joint Fitting - Each joint shall have a cone of deviation up to 30 degrees.

Suction Hose - Flexible polyurethane blended heavy duty hose with rigid poly helix and synthetic braiding smooth bore with corrugated outside diameter.

Suction Hose - Rated at 28" Hg Vacuum.

Suction Hose - Rated 70psi working pressure.

Suction Hose - Operating Temperature: - 13⁰f to 158⁰f.

Suction Hose - Tagged, Tested, and Certified. Certificates must be supplied.

Composite high pressure hose (Discharge Hose)- Heavy duty lay flat discharge hose Nitrile rubber tube and outer cover rated to 150psi working pressure with flange connections (fixed flange by floating flange)

Composite high pressure hose (Discharge Hose) - Each pipe joint shall incorporate a rubber O-ring for positive sealing.

All equipment must be fully compatible with existing LFUCG equipment with no modifications

Discharge Hose - Temperature Range: - 36^of to 210^of

Discharge Hose - Tagged, Tested, and Certified. Certificates must be supplied

Micro Controller Specifications

A91 Series Murphymatic Engine Micro-Controller or equal

Power Input: 12 or 24 VDC nominal (specify)

Standby Power Consumption: <50mA

Magnetic Pickup Input: Requires 2 V rms minimum

Sensor Input Polarity: Negative (-)

Outputs: Five (5) open collector transistor 500 mA sink.
Two (2) relay, 5 Amp maximum at 12 or 24 VDC (sourcing)

Reverse Polarity Protection: 200 volt peak reverse voltage

On-board Memory: 8k PROM (programmable, read only memory); data retention 10 years

Operating Temperature Range: -20 to 140°F (-25 to 60°C)

Operating Humidity Range: 0-95% Non-Condensing

User Trip point Adjustments: Five (5) on-board potentiometers (320° turn)

Test-Off-Automatic Toggle Switch: Three position switch for:

Test: Starts engine in automatic mode and runs until switched "off" or emergency shutdown occurs

Off: Disconnects all power to control circuits, Stop/disables engine from starting and resets shutdown indicators

Auto: Automatic start/stop sequencing is initiated by external switches and signals

Cycle Crank Timer: 5 crank attempts 7 seconds each; 4 rest periods 15 seconds each, before overcrank

Overspeed Trip Point Setting: From 2500-9000 Hz

Crank Disconnect Speed Setting: From 400-2500 Hz

Shutdown Time Delay: 15 seconds after engine start; locks out low lube oil and high temperature

Engine Run LED: Turns "on" when crank disconnect occurs

Shutdown Output: Removes DC output or operates dry relay contacts for engine shutdown (depending on model used)

Start/Stop: SPDT momentary; or SPST maintained switches

Warm-up Time Delay: Field adjustable from 0-300 seconds to load the engine after warm-up (model -WC only)

Cool down Time Delay: Field adjustable from 0-300 seconds (model -WC only).

Enclosure: Weatherproof NEMA 3R

Enclosure Coating: Red enamel

Subpanel Coating: White enamel

Shipping Weight: 17 lb. (8 kg); subpanel: 7 lb (3.2 kg)

Shipping Dimensions: 12 x 12 x 9 in. (305 x 305 x 229 mm)

Power Harness

12-25' cable to connect engine micro controller to a Godwin specific pump. Connector shall have round, military style plug.

Hose	LFUCG Item #	Unit Price
4" Suction Hose – One (1) 20' Length	DWQ7001	\$246.40
4" Composite high pressure hose (Discharge Hose) – One (1) 10' Length	DWQ7002	\$444.00
4" Composite high pressure hose (Discharge Hose) – One (1) 20' Length	DWQ7003	\$692.00

Strainers	LFUCG Item #	Unit Price
4" Square Hole Strainer with male Bauer Connection	DWQ7004	\$120.00
4" Square Hole Strainer with female Bauer Connection	DWQ7005	\$87.20

Connectors	LFUCG Item #	Unit Price
4" X 6" QD Increaser	DWQ7006	\$142.40
6" X 4" QD Reducer	DWQ7007	\$139.20
4" QD 90 Bend	DWQ7008	\$95.20
4" Male QD x Flange Adaptor	DWQ7009	\$126.40
6" Male QD x Flange Adaptor	DWQ7010	\$260.80
4" Male QD X MPT Adaptor	DWQ7011	\$90.40
4" Female QD C MPT Adaptor	DWQ7012	\$51.20
4" QD 45 Bend	DWQ7013	\$95.20

O-Rings	LFUCG Item #	Unit Price
4" Bauer O-Ring	DWQ7014	\$5.60
6" Bauer O-Ring	DWQ7015	\$8.00

Engine Micro-Controller	LFUCG Item #	Unit Price
A91 Series Murhpymatic Engine Micro-Controller	DWQ7016	\$2,571.60

★ Primeguard Auto Controller Installed on CD100M Godwin Ori-Prim

Power Harness	LFUCG Item #	Unit Price
12-25' Connector for Godwin specific pump	DWQ7017	included in install

For specification questions please contact Steve Farmer, Division of Water Quality, 859-425-2404. For bidding questions, please contact Betty Landrum, Division of Central Purchasing, 859-258-3329

★ See attached specification sheet.



Lexington-Fayette Urban County Government
DEPARTMENT OF FINANCE & ADMINISTRATION

Jim Gray
Mayor

William O'Mara
Commissioner

ADDENDUM #1

Bid Number: **40-2013**

Date: April 5, 2013

Subject: **Pump Station Hose, Fittings, & Motor Controller**

Please address inquiries to:
Betty Landrum (859) 258-3320

TO ALL PROSPECTIVE BIDDERS:

Please be advised of the following clarifications to the above referenced bid:

Questions	Answers
Does the motor controller have to be a stand alone unit?	The motor controller must be a stand alone unit or installation of the motor controller must be shown and included in the vendor's bid.

Todd Slatin, Director
Division of Central Purchasing

All other terms and conditions of the Bid and specifications are unchanged. This letter should be signed, attached to and become a part of your Bid.

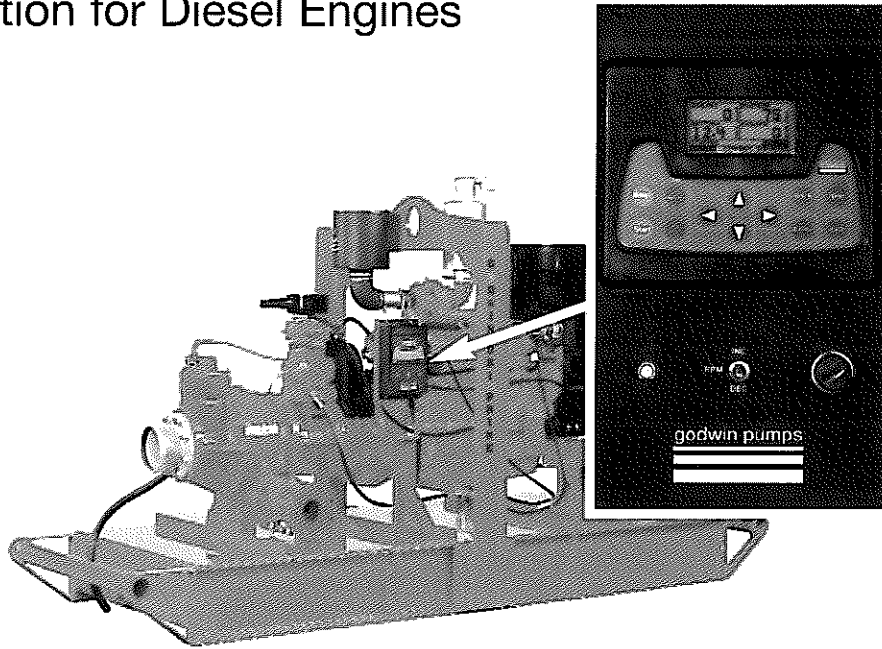
COMPANY NAME: Godwin Pumps / Xylem Dewatering Solutions

ADDRESS: 5329 Sissonville Drive, Charleston, WV 25312

SIGNATURE OF BIDDER:

Godwin PrimeGuard Controller

Automation for Diesel Engines



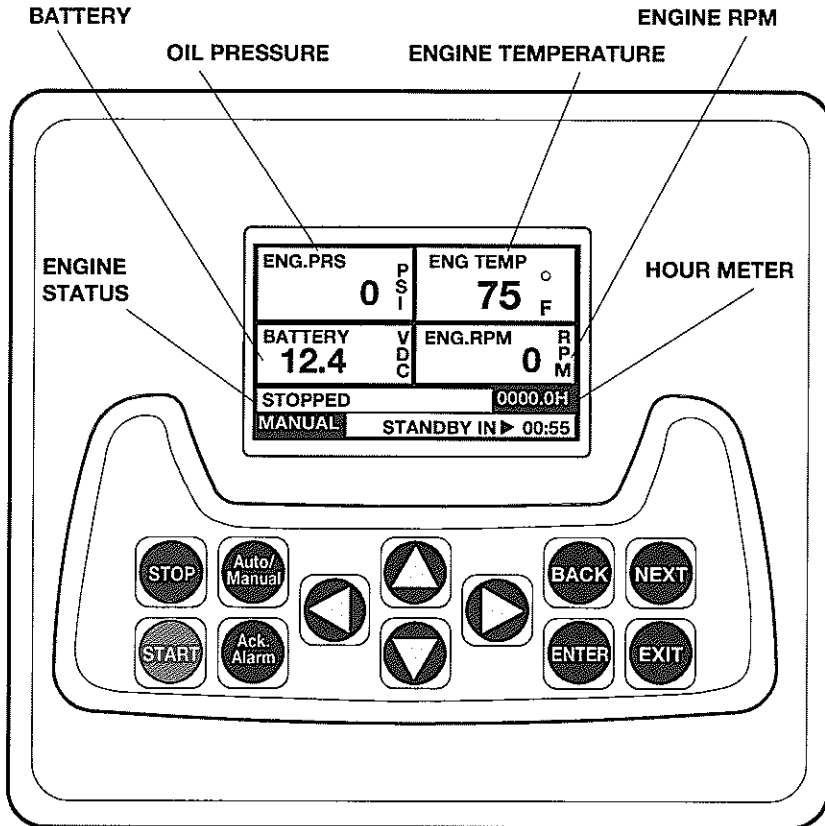
Godwin's diesel driven automatic Dri-Prime® pumps now include the Godwin PrimeGuard Automatic Level Control system on all Tier II electronic diesel engines. The Godwin PrimeGuard is a fully programmable microprocessor engine control system allowing for inputs from level, flow, pressure transducers or standard floats. Using any of these systems, your Godwin Dri-Prime® pump can start and stop automatically with no operator intervention required. Call today for more details about Automatic Level Controls for your portable/permanent pumping application.

Features

- High performance, state of the art, touch-sensing digital controller.
- No mechanical switches to wear or stick.
- Manual, automatic, or remote starting capabilities.
- Security levels allow limited to full access of controller functionality.
- Includes 8 programmable relays and 66 selectable features, including pump running, pump failure, and others.
- RS-232 and RS-485 communication ports enable communication with SCADA and other alarm equipment.
- Available as an option for non-electronic diesel engines.
- Capable of auto throttling engine rpm in response to changing pressure/level/flow transducer signals.
- Maintains an "event history" of all warning alarms (up to 32).
- User can pre-set engine rpm to maintain flow and head parameters when running unattended.
- Tracks oil and filter usage and alerts operator when replacement is recommended.
- Diesel engine warm up/cool down cycle available.



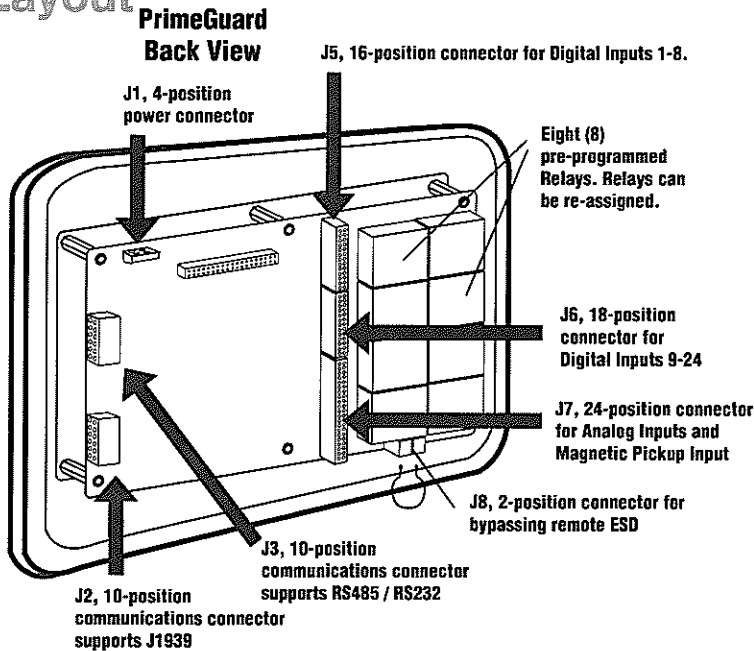
Godwin PrimeGuard Controller Basic Operation



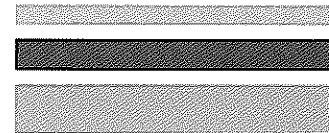
- One-touch engine starting
- One-touch engine stopping
- Directional arrows for data input
- Switches between auto and manual modes
- Acknowledges alarms
- Navigates back across status screens
- Navigates forward across status screens
- Enters selected data
- Exits current screen to four quadrant information screen

Default "Home" screen illustrated above.

Godwin PrimeGuard Connector Layout



The Godwin PrimeGuard is designed to operate from any DC supply from 8-35VDC continuous.



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 Quenington, Cirencester, Glos., GL7 5BX, UK
 +44 (0)1285-750271 • Fax: +44 (0)1285-750352
 E-mail: sales@godwinpumps.com
 www.godwinpumps.com

BRANCH LOCATIONS:

Connecticut • Pennsylvania • Ohio • New York
 Illinois • Maryland • Virginia • West Virginia • Georgia
 South Carolina • North Carolina • Florida • Texas
 Montana • California • Washington

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AUTOMATIC STARTING CONTROL SYSTEM

2.3.1 The engine shall be equipped with a factory installed PrimeGuard microprocessor-based controller as supplied by Godwin Pumps of America, Inc. and designed to start/stop the engine at a signal supplied by high and low level floats or a 4-20 mA transducer.

2.3.2 ENGINE / PUMP CONTROL SPECIFICATIONS

The engine shall be started, stopped, and controlled by a PrimeGuard high performance state of the art digital controller as supplied by Godwin Pumps of America, Inc. The controller shall be weather proof enclosed, and contain an external weatherproof 12-position keypad accessible without the need to remove or open any protective cover or enclosure. It shall be designed to start/stop the engine at a signal supplied by high and low level floats or a 4-20 mA transducer. The PrimeGuard controller shall provide the following functions without modification, factory recalibration, or change of chips or boards, by simply accessing the keypad.

2.3.2.1 The keypad shall be a capacitive touch sensing system. No mechanical switches will be acceptable. The keypad shall operate in extreme temperatures, with gloves, through ice, snow, mud, grease, etc. and maintain complete weather-tight sealing of the PrimeGuard controller.

2.3.2.2 In automatic mode, the unit shall conserve energy and go to “sleep”.

2.3.2.3 The PrimeGuard controller shall function interchangeably from float switches, pressure switch, or transducer, as well as manual start/stop by selection at the keypad. No other equipment or hardware changes are required.

2.3.2.4 The start function can be programmed to provide two separate functions each day for seven days (i.e. a start, exercise cycle on two separate days at different times and for a varying length of time all via the keypad).

2.3.2.5 Manual-Automatic Button:

2.3.2.5.1 In Manual Mode, manual “Start” button starts engine and runs until “Stop” button is depressed or an emergency shutdown occurs.

2.3.2.5.2 In Automatic Mode, start/stop sequencing is initiated by either two normally-open narrow angler float switches, pressure switch, level transducer, pressure transducer, or a signal from a digital input.

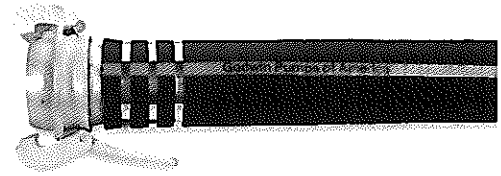
2.3.2.6 The controller shall integrate the engine safety shut-off for low and high oil temperature, and provide over-speed protection.

- 2.3.2.7 The controller shall include standard, field-adjustable parameters for engine cycle crank timer, and shutdown time delay.
- 2.3.2.8 The PrimeGuard controller shall have only one circuit board with eight built-in relays. Each relay can be named to provide any function, all via the keyplay without changing relays, chips, printed circuits, or any hardware or software.
- 2.3.2.9 Standard components shall consist of (24) digital inputs, (7) analog inputs, (1) magnetic pick-up input, (8) 20-amp form "C" relays, (1) RS232 port, (1) RS485 port, (1) RS232/RS485 port, (1) J1939 port, and (1) 64X128 pixel full graphic LCD display with backlight.
- 2.3.2.10 The industrially-hardened PrimeGuard Controller shall withstand Vibration of 3 g, 3 axis, frequency swept 10-1000 Hz, in an operating temperature Range of 4° to 176°F (-20° to 80°C) and an operating humidity range of 0-95% Non-Condensing.
- 2.3.11 FLOAT SWITCHES: One-normally open and one-normally closed narrow angle (10° to 20°) float switches integrate into automatic pump controller. The floats shall be constructed with tilt sensation switches enclosed within stainless steel. Each float will have a minimum 25 ft. waterproof cable wired into a twist-lock wiring harness that connects directly to an A91 controller or equivalent.

Godwin Suction Hose

2" (51 mm) to 12" (305 mm) Heavy-Duty Suction Hose

Godwin Pumps® features heavy-duty suction hoses, fully vacuum rated for water, petroleum and chemical applications in sizes from 2" (51 mm) to 12" (305 mm) diameters. Available with Godwin Quick Disconnect or Camlock fittings or flanges. Ideal for water, oil and chemical applications.



Features & Benefits

- Smooth, black EPDM blend tubing
- Weather- and ozone-resistant EPDM blend cover with fabric impression
- Reinforced with synthetic fabric with wire helix
- Rated for temperatures from -25°F to +185°F
- Resistant to salt water and water-based agricultural fertilizers
- Flexible and economical

Dimensions

Inside ø " (mm)	Outside ø " (mm)	Maximum Working Pressure psi (bar)	Weight - lbs./'	Vac " Hg	Bend Radius " (mm)
2 (51)	2.49 (63)	150 (10)	1.11	28	8 (203)
3 (76)	3.5 (89)	150 (10)	2.24	28	12 (305)
4 (102)	4.53 (115)	150 (10)	2.79	28	18 (457)
6 (152)	6.54 (166)	150 (10)	5.75	28	31 (787)
8 (203)	8.79 (223)	100 (7)	6.59	28	42 (1067)
10 (254)	10.91 (277)	75 (5)	10.25	25	50 (1270)
12 (305)	12.91 (328)	75 (5)	13.5	25	60 (1524)

Home Office:
 Godwin Pumps of America, Inc.
 One Floodgate Road
 Bridgeport, NJ 08014 USA
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 Email: sales@godwinpumps.com
 www.godwinpumps.com

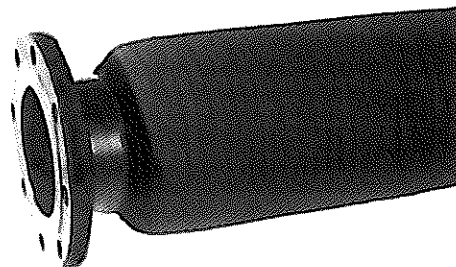
**godwin
pumps®**

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Godwin Cargo Hose

4" to 12" Flanged OS&D Cargo Hose

Godwin Pumps® features all-purpose, heavy-duty suction and discharge cargo hose. Rated for full vacuum and pressures to 225 psi, the rugged design of this hose provides kink-resistance and flexibility. Ideal for water, oil, petroleum, sewage and sludge applications, this hose is available with 150 lb. or 300 lb. flanges in 10' and 20' lengths.

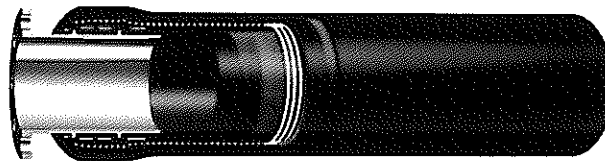


Features & Benefits

- Specially formulated nitrile tube is resistant up to 55% aromatics
- Synthetic rubber cover is oil, ozone, abrasion and gouge resistant
- Reinforced with high tensile strength tire cord piles, helix wire
- Rated for temperatures from -40°F to +180°F
- Full vacuum rating, working pressures to 225 psi
- Flexible and kink-resistant

Dimensions

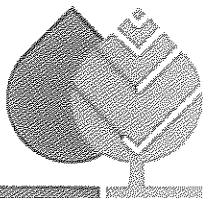
Inside ø (")	Outside ø (")	Max. Working Pressure psi	Weight - (lbs./')	Vac Rating	Bend Radius (")
4	5.00	225	4.30	Full	20
6	7.25	225	8.20	Full	27
8	9.40	225	12.30	Full	36
10	11.72	225	21.01	Full	60
12	13.91	225	27.06	Full	100



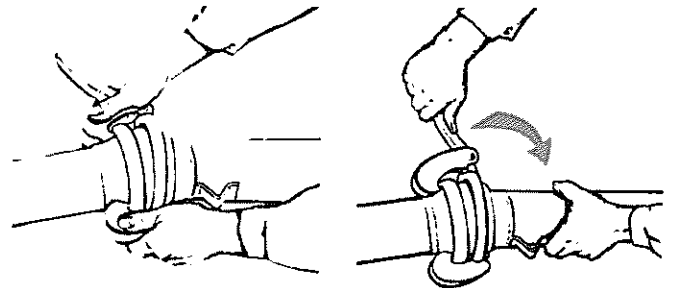
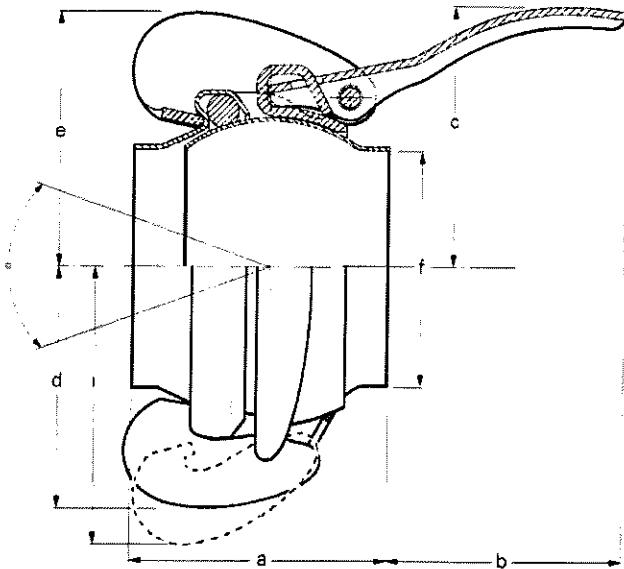
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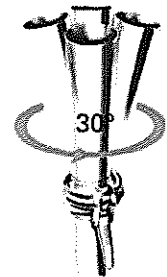


BAUER



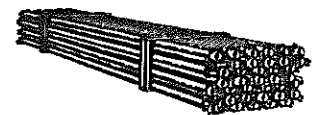
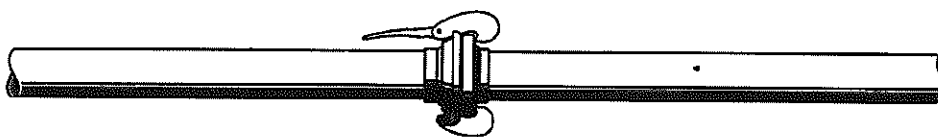
Unmatched efficiency

Genuine BAUER HK couplings are quickly and easily coupled/uncoupled with a few simple hand movements, providing great flexibility of installation – even on difficult sites – with articulation on coupling joint up to 30°.



Dimension HK	inch	a	b	c	d	e	f	g	h	i	PN bar
50	2	69.7	93.7	80	65	63	49	30	80	20	
76	3	90.2	118.6	85	90	95	76	30	120	12	
89	3 1/2	114.1	104.4	116	101	107	89	30	130	20	
108	4 1/4	127.3	136	114	115	123	108	30	150	12	
133	5 1/4	122.7	162.5	141	130	137	133	20	170	12	
159	6 1/4	135.8	148.8	157	152	149	159	20	195	12	
194	7 5/8	160.2	143.7	186	180	177	194	20	215	12*	

Pipe installation system

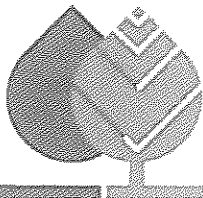


Genuine BAUER HK/HKS Quick-coupling Pipes, hot dip galvanised, standard length 6 m

Dimension HK	inch	Wall thickness mm		Weight kg/pipe		No pipes in bundle	Weight/bundle kg		per pipe		per bundle	
		HK	HKS	HK	HKS		HK	HKS	HK	HKS		
50	2	0.65	1.5	6.30	12.80	150	961	1936	101 0116	155 0116	101 0096	155 0096
76	3	0.65	1.5	10.80	19.70	74	815	1474	109 0116	156 0116	109 0096	156 0096
89	3 1/2	0.7	1.5	13.70	23.40	45	633	1069	104 0116	161 0116	104 0096	161 0096
108	4 1/4	0.85	1.5	18.60	29.10	38	723	1122	105 0116	162 0116	105 0096	162 0096
133	5 1/4	1	1.5	25.90	38.20	26	689	1009	110 0116	158 0116	110 0096	158 0096
159	6 1/4	1	2	33.90	57.20	17	592	988	107 0116	159 0116	107 0096	159 0096
194	7 5/8	1.1	2	45.30	69.40	12	560	849	108 0116	160 0116	108 0096	160 0096

= part number – non-stated references on request!

*) HK 194 also available in PN 20



BAUER

Genuine BAUER HK Rubber Sealing Ring S4, S5

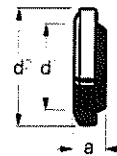
Dimension		d	Weight kg	HK	HK	HK
HK	inch			for water	oil-resistant	food grade
50	2	50	0.02	101 0140	101 0141	101 0142
76	3	76	0.05	103 0140	103 0141	103 0142
89	3 1/2	89	0.06	104 0140	104 0141	104 0142
108	4 1/4	108	0.09	105 0140	105 0141	105 0142
133	5 1/4	133	0.15	110 0140	110 0141	110 0142
159	6 1/4	159	0.21	107 0140	107 0141	107 0142
194	7 5/8	194	0.25	108 0140	108 0141	108 0142



Special seal material options available on request!

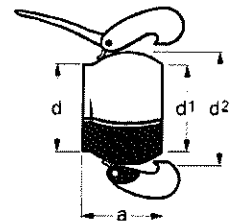
Genuine BAUER HK End Cap S8

Dimension		a	d ¹	d ²	Weight kg	PN bar	HK	HK
HK	inch						galvanised	stainl. steel
50	2	37	70.5	83	0.18	20	101 0201	194 0201
76	3	38	100.5	116.5	0.45	12	103 0301	199 0201
89	3 1/2	57	120	137	0.75	20	104 0201	196 0201
108	4 1/4	47	145	167	1.15	12	105 0201	195 0201
133	5 1/4	47	161	191	1.20	12	110 0201	192 0201
159	6 1/4	38	180.5	212	1.90	12	107 0201	197 0201
194	7 5/8	80	234	267	3.50	12*	108 0201	198 0201



Genuine BAUER HK End Ball S9

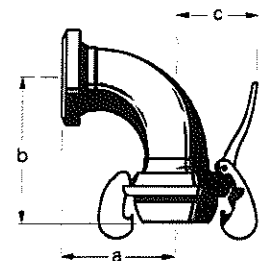
Dimension		a	d	d ¹	d ²	Weight kg	PN bar	HK
HK	inch							galvanised
50	2	54	49.5	52	70	0.13	20	100 6955
76	3	73.5	76	78	97.5	0.26	12	100 7052
89	3 1/2	87	89	90	119.5	0.37	20	100 7055
108	4 1/4	104.5	108	111	144	0.69	12	100 7057
133	5 1/4	96.5	133	135	159.5	0.81	12	100 7054
159	6 1/4	119	159	154	179.5	1.29	12	100 7056
194	7 5/8	127	194	200	230	1.90	12*	100 7053



Genuine BAUER Lever Closure Ring S2 required in addition!

Genuine BAUER HK Bend 90° S11

Dimension		a	b	c	Gew. kg	PN bar	HK	HK
HK	inch						galvanised	stainl. steel
50	2	89	111.5	80	1.00	20	101 1101	
76	3	129.5	167.5	85	2.30	12	109 1101	
89	3 1/2	165.5	200	116	3.40	20	104 1101	
108	4 1/4	198	246	114	5.20	12	105 1101	
133	5 1/4	238	276	141	8.30	12	110 1101	
159	6 1/4	250	315	157	11.20	12	107 1101	
194	7 5/8	335	381	186	12.90	12*	108 1101	198 1101

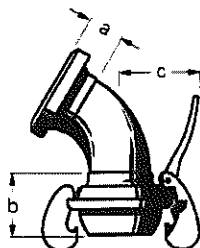


☐ = part number – non-stated references on request!

*) HK 194 also available in PN 20

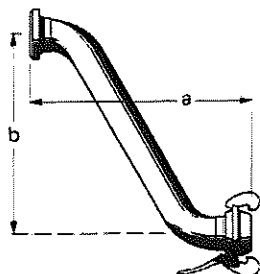
HK COUPLING – The Genuine

Genuine BAUER HK Bend 60° S12



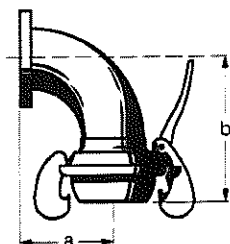
Dimension HK	inch	a	b	c	Weight kg	PN bar	HK galvanised	HK stainl.steel
50	2	33.6	54.5	80	0.95	20	101 1201	
76	3	36	74	85	2.25	12	109 1201	
89	3 1/2	52.5	87	116	3.15	20	104 1201	
108	4 1/4	57	105	114	5.00	12	105 1201	
133	5 1/4	59	96	141	7.45	12	110 1201	
159	6 1/4	48.5	99	157	10.50	12	107 1201	
194	7 5/8	78	106	186	12.60	12*	108 1201	

Genuine BAUER HK "S" Bend S18



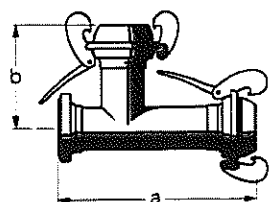
Dimension HK	inch	a	b	Weight kg	PN bar	HK galvanised
76	3	792	956	4.30	12	109 1501
89	3 1/2	817	957	5.65	20	104 1501
108	4 1/4	1007	1219	12.80	12	105 1501
133	5 1/4	1510	2060	25.65	12	110 1501
159	6 1/4	1550	2083	28.00	12	107 1501
194	7 5/8	1710	2130	32.80	12*	108 1501

Genuine BAUER HK Flanged Bend 90° with ball S19

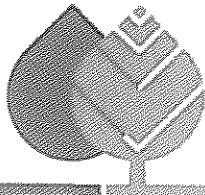


Dimension HK	inch	a	b	DN	PN	Weight kg	Flange DIN	Flange BS 10	Flange ASA
50	2	77	111.5	50	16		100 7070		
89	3 1/2	113.5	200	80	16		100 7069	-	-
89	3 1/2	113.5	200	3"				100 7637	
108	4 1/4	160	246	100	16		100 7068	-	-
108	4 1/4	160	246	4"				100 7636	100 6819
133	5 1/4	198	276	100	16		100 7419		
159	6 1/4	220	315	100	16		100 7965	-	-
159	6 1/4	220	315	150	16		100 7387	-	-
159	6 1/4	220	315	6"				100 7635	100 6818
194	7 5/8	279	381	*200	16		100 7388	-	-
194	7 5/8	279	381	8"					100 6817

Genuine BAUER HK Tee S21



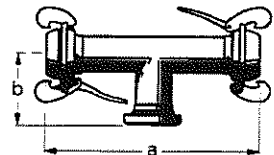
Dimension HK	inch	a	b	Weight kg	PN bar	HK galvanised
50	2	308	154	1.60	20	101 1701
76	3	357	224	3.70	12	109 1701
89	3 1/2	391	205	5.15	20	104 1701
108	4 1/4	453	268	7.55	12	105 1701
133	5 1/4	484	280	10.00	12	110 1701
159	6 1/4	513	299	14.40	12	107 1701
194	7 5/8	747	462	24.40	12*	108 1701



BAUER

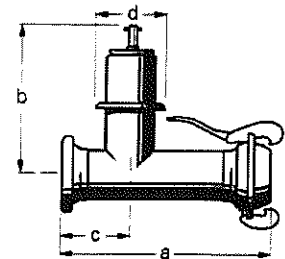
Genuine BAUER HK Inlet Tee S27

Dimension HK	inch	a	b	Weight kg	PN bar	HK galvanised
50	2	378	134	1.50	20	101 1901
76	3	544	192	3.85	12	109 1901
89	3 1/2	510	166	5.30	20	104 1901
108	4 1/4	576	225	7.65	12	105 1901
133	5 1/4	633	250	11.25	12	110 1901
159	6 1/4	678	240	15.20	12	107 1901



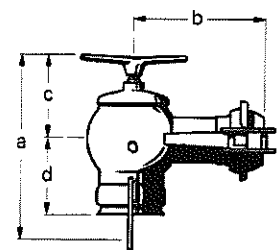
Genuine BAUER HK Hydrant Tees S35/3" and S37/4"

Dimension HK	inch	a	b	c	d	Weight kg	PN bar	HK galvanised
76/3"	3/3	365	240	124	111	3.55	12	241 2301
89/3"	3 1/2/3	393	252	120	111	4.25	20	241 2201
108/3"	4 1/4/3	456	263	148	111	5.65	12	241 2101
133/3"	5 1/4/3	482	279	168	111	7.65	12	241 2001
159/3"	6 1/4/3	517	295	172	111	9.95	12	241 2401
194/3"	7 5/8/3	620	308	203	111	14.40	12	241 1501
108/4"	4 1/4/4	457	320	151	156	6.50	12	242 2401
133/4"	5 1/4/4	488	356	157	156	8.60	12	242 2301
159/4"	6 1/4/4	522	368	174	156	11.80	12	242 2001
194/4"	7 5/8/4	620	390	205	156	20.40	12*	242 2101



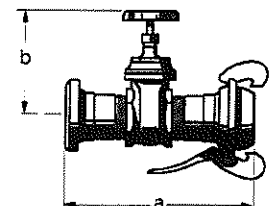
Genuine BAUER HK Connecting Bend with valve spindle S36/3", S38/4", S38 U/4" and S39/5"

Dimension HK	inch	a max.	b	c max.	d	Weight kg	PN bar	HK galvanised
76/3"	3/3	288	171	158	107	3.95	12	241 0200
89/3"	3 1/2/3	288	231	158	107	4.60	20	241 0300
89/4"	3 1/2/4	365	250	186	153	4.20	20	242 0300
108/4"	4 1/4/4	365	207	186	146	5.40	12	242 0200
89/U4"	3 1/2/U4	580	190	190	345	6.20	20	242 5020
108/U4"	4 1/4/U4	580	207	190	345	7.90	12	242 5000
133/5"	5 1/4/5	472	325	246	188	11.00	12	243 0200



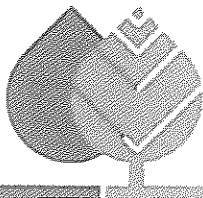
Genuine BAUER HK Brass Gate Valve S63

Dimension HK	inch	a	b	R*	Weight kg	PN bar	HK galvanised
50	2	247	147	2	2.90	20	211 0051
76	3	295	179	2 1/2	4.90	12	211 0052
89	3 1/2	345	200	3	6.40	20	211 0053
108	4 1/4	400	240	4	9.35	12	211 0054
133	5 1/4	455	312	5	17.35	12	211 0057
159	6 1/4	525	360	6	18.65	12	211 0056



* = part number - non-stated references on request!

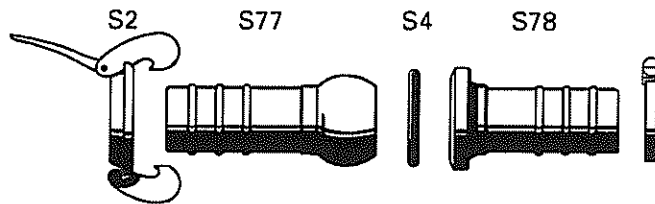
*) HK 194 also available in PN 20



BAUER

HK Hose Connection

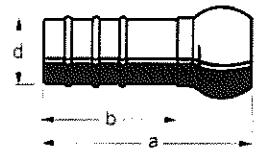
Genuine BAUER HK hose connectors are recommended and used by leading international hose manufacturers



Genuine BAUER HK Hose Coupling with ball S77

Dimension HK	inch	a	b	d	Weight kg (HK)	HK		mm	
						galvanised	stain.steel	from - to	
50	2	200	145	50	0.38	101 1011	194 1011	52-55	062 5149
70	3	235	155	69	0.72	103 1011		74-79	062 5089
70	3	225	145	63	0.70	100 7759		74-79	062 5089
76	3	229	145	74,6	0.82	109 1011		80-85	062 5172
89	3 1/2	242	155	74,6	1.20	104 1021	196 1011	80-85	062 5172
89	3 1/2	242	155	89	1.60	104 1011		92-97	062 5082
108	4 1/4	263	155	74,6	1.60	100 9013		80-85	062 5172
108	4 1/4	263	155	89	1.65	100 9015		92-97	062 5082
108	4 1/4	313	208	100	1.70	105 1011	195 1011	104-112	062 5176
108	4 1/4	313	208	108	1.80	105 1021		113-121	062 5065
133	5 1/4	308	208	100	2.10	100 7078		104-112	062 5176
133	5 1/4	305	208	125	2.25	110 1011		131-139	062 5087
159	6 1/4	350	232	150	3.35	107 1011	197 1011	149-161	062 5086
194	7 5/8	397	270	200	3.90	108 1011	198 1011	201-213	062 5067

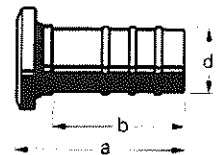
Hose clamp



Genuine BAUER HK Hose Coupling with socket S78

Dimension HK	inch	a	b	d	Weight kg (HK)	HK		mm	
						galvanised	stain.steel	from - to	
50	2	179	145	50	0.40	101 0711	194 0711	52-55	062 5149
70	3	197	155	69	0.70	103 0711		74-79	062 5089
70	3	190	145	63	0.70	100 7664		74-79	062 5089
76	3	194	155	74,6	0.80	109 0711		80-85	062 5172
89	3 1/2	204	155	74,6	1.25	104 0721	196 0711	80-85	062 5172
89	3 1/2	209	155	89	1.68	104 0711		92-97	062 5082
108	4 1/4	215	155	74,6	1.45	100 9229		80-85	062 5172
108	4 1/4	215	155	89	1.50	100 9014		92-97	062 5082
108	4 1/4	266	208	100	1.70	105 0711		104-112	062 5176
108	4 1/4	266	208	108	1.80	105 0721	195 0711	113-121	062 5065
133	5 1/4	268	208	100	2.30	100 7077		104-112	062 5176
133	5 1/4	268	208	125	2.40	110 0711		131-139	062 5087
159	6 1/4	282	232	150	3.30	107 0711	197 0711	149-161	062 5086
194	7 5/8	346	270	200	4.30	108 0711	198 0711	201-213	062 5067

Hose clamp



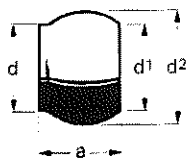
= part number – non-stated references on request!

HK COUPLING – The Genuine

Genuine BAUER HK/HKS Fitting Pipes, hot dip galvanised, in lengths of 1, 2 and 3 m

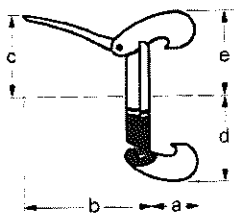
Dimension HK	inch	Pipe length 1 m			Pipe length 2 m			Pipe length 3 m			
		Weight kg	HK	Weight kg	HKS	Weight kg	HK	Weight kg	HK	Weight kg	HKS
50	2	1.55	101 0111	2.70	155 0111	2.60	101 0112	3.50	101 0113	6.70	155 0113
76	3	3.40	109 0111	4.70	156 0111	5.00	109 0112	6.70	109 0113	10.70	156 0113
89	3 1/2	4.15	104 0111	5.90	161 0111	6.00	104 0112	7.65	104 0113	12.70	161 0113
108	4 1/4	5.30	105 0111	7.80	162 0111	8.60	105 0112	11.40	105 0113	16.20	162 0113
133	5 1/4	9.40	110 0111	10.70	158 0111	11.70	110 0112	16.00	110 0113	21.70	158 0113
159	6 1/4	10.50	107 0111	15.30	159 0111	15.10	107 0112	19.90	107 0113	32.00	159 0113
194	7 5/8	16.70	108 0111	20.40	160 0111	22.90	108 0112	29.10	108 0113	40.20	160 0113

Genuine BAUER HK Ball S1



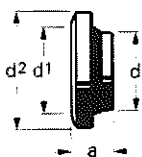
Dimension HK	inch	a	d	d ¹	d ²	Weight kg	PN bar	HK black	HK galvanised	HK stainl. steel
50	2	54	49.5	52	70	0.13	20	101 0182	101 0132	194 0182
76	3	73.5	76	78	97.5	0.26	12	109 0182	109 0132	199 0182
89	3 1/2	87	89	90	119.5	0.37	20	104 0182	104 0132	196 0182
108	4 1/4	104.5	108	111	144	0.69	12	105 0182	105 0132	195 0182
133	5 1/4	96.5	133	135	159.5	0.81	12	110 0182	110 0132	192 0182
159	6 1/4	119	159	154	179.5	1.29	12	107 0182	107 0132	197 0182
194	7 5/8	127	194	200	230	1.90	12*	108 0182	108 0132	198 0182

Genuine BAUER HK Lever Closure Ring S2



Dimension HK	inch	a	b	c	d	e	Wt. kg	PN bar	HK black	HK galvanised	HK nickel	HKS galvanised
50	2	38	120	80	65	63	0.42	20	101 0184	101 0134	101 0124	155 0134
76	3	62	170	85	90	95	1.08	12	103 0184	103 0134	103 0124	156 0134
89	3 1/2	62	175	116	101	107	1.40	20	104 0184	104 0134	104 0124	161 0134
108	4 1/4	65	210	114	115	123	1.80	12	105 0184	105 0134	105 0124	162 0134
133	5 1/4	80	230	141	130	137	3.05	12	110 0184	110 0134	110 0124	158 0134
159	6 1/4	90	170	157	152	150	4.05	12	106 0184	106 0134	106 0124	159 0134
194	7 5/8	100	160	186	180	177	6.10	12*	108 0184	108 0134	108 0124	160 0134

Genuine BAUER HK Socket S3



Dimension HK	inch	a	d	d ¹	d ²	Weight kg	PN bar	HK black	HK galvanised	HK stainl. steel
50	2	32	49.5	70.5	83	0.12	20	101 0183	101 0133	194 0183
76	3	36	76	100.5	116.5	0.25	12	109 0183	109 0133	199 0183
89	3 1/2	54	89	120	137	0.39	20	104 0183	104 0133	196 0183
108	4 1/4	58	108	145	167	0.64	12	105 0183	105 0133	195 0183
133	5 1/4	60	133	161	191	0.92	12	110 0183	110 0133	192 0183
159	6 1/4	50	159	180.5	212	1.16	12	107 0183	107 0133	197 0183
194	7 5/8	76	194	234	267	2.32	12*	108 0183	108 0133	198 0183

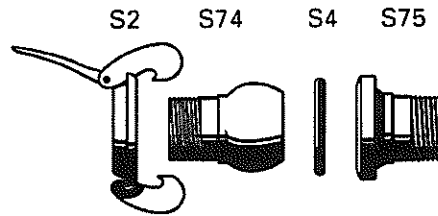
= part number – non-stated references on request!

*) HK 194 also available in PN 20

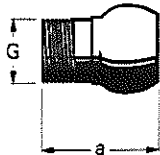
HK COUPLING – The Genuine

The optimum joint

BAUER HK ball and socket with thread, an excellent connection to existing installations



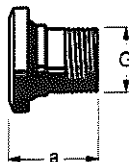
Genuine BAUER HK Ball with thread S74



Dimension HK	inch	a	G*	Weight kg	Thread ISO 228 galvanised	Thread NPT galvanised	Thread BSP galvanised
50	2	112	1 1/2	0.35	100 0186	100 0191	100 7590
50	2	112	2	0.40	101 0801	101 0811	100 7632
76	3	149	2 1/2	0.70	103 0801	103 0811	
76	3	170	3	1.00	100 8979	109 0820	
89	3 1/2	170	2 1/2	1.00	104 3601		100 7631
89	3 1/2	177	3	1.00	104 0801	104 0811	
108	4 1/4	180	3	1.30	105 3600		100 7218
108	4 1/4	195	4	1.75	105 0801	105 0811	
133	5 1/4	175	4	1.80	110 3601		
133	5 1/4	215	5	2.60	110 0801		
159	6 1/4	212	5	3.00	106 0801		
159	6 1/4	260	6	4.10	107 0801	107 0811	
194	7 5/8	310	8	5.00		108 0810	

ISO 228 corresponds to BSP

Genuine BAUER HK Socket with thread S75

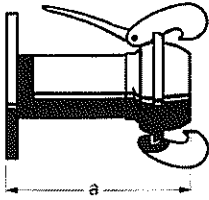


Dimension HK	inch	a	G*	Weight kg	Thread ISO 228 galvanised	Thread NPT galvanised	Thread BSP galvanised
50	2	75	1 1/2	0.30	100 6945		100 7581
50	2	93	2	0.40	101 0501	101 0511	100 7634
76	3	112	2 1/2	0.75	103 0501	109 0511	
76	3	140	3	1.10		109 0521	
89	3 1/2						
89	3 1/2	135	3	1.20	104 0501	104 0511	100 7633
108	4 1/4	148	3	1.50			100 7153
108	4 1/4	148	4	1.75	105 0501	105 0511	
133	5 1/4						
133	5 1/4	180	5	2.95	110 0501		
159	6 1/4	190	5	3.80	107 0513		
159	6 1/4	195	6	4.10	107 0501	107 0511	
194	7 5/8	255	8	5.20		108 0511	

ISO 228 corresponds to BSP

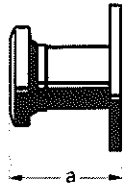
HK COUPLING – The Genuine

Genuine BAUER HK Flanged Connection with ball S70



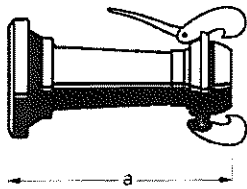
Dimension HK	inch	a	DN	Weight kg	Flange DIN HK	Flange BS 10	Flange ASA verzinkt
50	2	179	50/2"	2.85	101 2500	100 7106	100 6971
76	3	232	65/3"	4.60	109 2500		100 6970
89	3 1/2	250	80/3"	5.90	104 2500	100 7627	
108	4 1/4	293	100/4"	7.70	105 2500	100 7626	100 6987
133	5 1/4	315	125/5"	10.40	110 2500		
159	6 1/4	334	150/6"	13.60	107 2500	100 7625	100 7005
194	7 5/8	381	200/8"	21.15	108 2500	100 7322	100 7003

Genuine BAUER HK Flanged Connection with socket S73



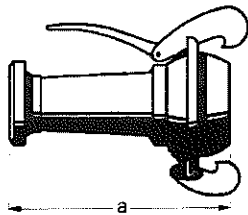
Dimension HK	inch	a	DN	Weight kg	Flange DIN	Flange BS 10	Flange ASA galvanised
50	2	110	50/2"	2.35	101 2301	100 7107	100 6969
76	3	125	65/3"	3.40	109 2301		100 6968
89	3 1/2	125	80/3"	4.35	104 2301	100 7630	
108	4 1/4	150	100/4"	5.30	105 2301	100 7629	100 6986
133	5 1/4	150	125/5"	7.70	110 2301		
159	6 1/4	143	150/6"	8.65	107 2301	100 7628	100 7004
194	7 5/8	187	200/8"	14.85	108 2301	100 7321	100 7002

Genuine BAUER HK Reducer S81



Dimension HK	inch	a	Weight kg	PN bar	HK galvanised
76/50	3/2	217	1.10	12	103 2701
89/50	3 1/2/2	280	2.00	20	100 9240
89/76	3 1/2/3	286	2.20	12	104 2711
102/76	4/3	285	2.50	12	152 2711
102/89	4/3 1/2	294	3.00	12	152 2701
108/76	4 1/4/3	290	2.80	12	105 2711
108/89	4 1/4/3 1/2	304	3.20	12	105 2701
108/102	4 1/4/4	336	4.10	12	105 2716
133/76	5 1/4/3	340	4.30	12	100 7851
133/102	5 1/4/4	328	4.55	12	110 2711
133/108	5 1/4/4 1/4	357	4.75	12	110 2701
159/108	6 1/4/4 1/4	345	4.75	12	106 2701
159/133	6 1/4/5 1/4	360	6.50	12	107 2701
194/159	7 5/8/6 1/4	366	10.50	12	108 2701

Genuine BAUER HK Enlarger S82



Dimension HK	inch	a	Weight kg	PN bar	HK galvanised
50/76	2/3	230	1.80	12	101 1601
50/89	2/3 1/2	280	2.00	20	100 9649
76/89	3/3 1/2	295	2.60	12	109 1601
76/102	3/4	300	3.00	12	109 1621
76/108	3/4 1/4	310	3.50	12	100 9160
76/133	3/5	455	5.00	12	100 7290
89/102	3 1/2/4	304	3.35	12	104 1611
89/108	3 1/2/4 1/4	329	3.75	12	104 1601
102/108	4/4 1/4	342	4.70	12	152 1611
102/133	4/5 1/4	320	5.40	12	152 1601
108/133	4 1/4/5 1/4	367	5.65	12	105 6701
108/159	4 1/4/6 1/4	370	7.13	12	105 16 01
133/159	5 1/4/6 1/4	394	7.65	12	110 1601
159/194	6 1/4/7 5/8	356	11.00	12	107 1601