CLAIM OF BENEFICIAL USE for Surface Water Permits claiming 0.1 cfs or less

OREGON WATER RESOURCES DEPARTMENT
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.oregon.gov/OWRD

A fee of $345 must accompany this form for permits with priority dates of July 9, 1987, or later.

Enter the date the priority date of the permit:

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A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at: https://www.oregon.gov/OWRD/Forms/Pages/default.aspx

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

"Section 8" of this form is intended to aid in the completion of this form and should not be submitted.

If you have questions regarding the completion of this form, please call 503-986-0900.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see: https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx

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SECTION 1

GENERAL INFORMATION

1. File Information:

APPLICATION #	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
S-86006	54172	

2. Property Owner (current owner information):

Applicant/Business Name	Phone No.	Additional Contact No.
CECIL E. COOK	1-425-870-2704	

Address			
3380 FISH HATCHERY ROAD			
City	State	Zip	E-Mail
GRANTS PASS	OREGON	97527	NONE

If the current property owner is not the permit holder of record, it is recommended that an assignment be filed with the Department. ***Each*** *permit holder of record must sign this form.*

3. Permit holder of record (this may, or may not, be the current property owner):

Permit Holder of Record		
ROGER EBNER (see attached "Request for assignment" attached)		
Address		
3380 FISH HATCHERY ROAD		
City	State	Zip
GRANTS PASS	OREGON	97527

Additional Permit Holder of Record		
Address		
City	State	Zip

4. Date of Site Inspection:

OCTOBER 8, 2025

5. Person(s) interviewed and description of their association with the project:

Name	Date	Association with the Project
HINJO ESLAMA	10/8/2025	IRRIGATION/LANDSCAPER

6. County:

JOSEPHINE

7. If any property described in the place of use of the permit final order is excluded from this report, identify the owner of record for that property (ORS 537.230(5)):

Owner of Record		
Address		
City	State	Zip

Add additional tables for owners of record as needed

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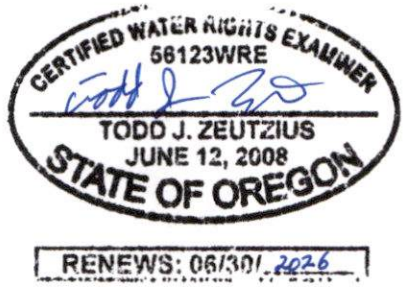
SECTION 2
SIGNATURES

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.

Seal and Signature



CWRE NAME		PHONE NO.	ADDITIONAL CONTACT NO.
TODD J. ZEUTZIUS		541-476-4502	
ADDRESS			
321 NW A STREET			
CITY	STATE	ZIP	E-MAIL
GRANTS PASS	OREGON	97526	TODDJZ@QWESTOFFICE.NET

Permit Holder(s) of Record Signature or Acknowledgement

Each *permit holder of record must sign this form in the space provided below.*

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
	CECIL E. COOK	OWNER	11/14/25

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SECTION 3

CLAIM DESCRIPTION

1. POD source and, if from surface water, the tributary:

POD NAME OR NUMBER	SOURCE	TRIBUTARY
POD 1	**APPLEGATE RESERVOIR**	**APPLEGATE RIVER**

2. Developed use(s), period of use, and rate for each use:

POD NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
POD 1	**IRRIGATION**	**LANDSCAPING**	**APRIL 1 – OCTOBER 31**	**5.3 AF**
Total Quantity of Water Used				**5.3 AF**

3. Provide a general narrative description of the distribution works. This description must trace the water system from **each** point of diversion to the place of use:

WATER TRAVELS FROM THE INTAKE LOCATED IN THE APPLEGATE RIVER, THEN THROUGH THE PUMP, METER, THEN INTO A 3" PVC UNDERGROUND SUPPLY PIPELINE. EACH OF THE 11 ZONES ARE CONNECTED TO THE SUPPLY PIPELINE. SPRINKLERS ARE USED TO APPLY THE WATER TO THE LANDSCAPE LAWNS/PLANTS/BUSHES/TREES. (See Water Delivery System Description)

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

4. Variations:

Was the use developed differently from what was authorized by the permit, permit amendment final order, or extension final order? If yes, describe below. **YES**

(e.g. *"The permit allowed three points of diversion. The water user only developed one of the points."* or *"The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres."*)

THE PERMIT ALLOWED 4.0 ACRES OF IRRIGATION. THE WATER USER ONLY DEVELOPED 2.0 ACRES OF IRRIGATION

5. Claim Summary:

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POD / POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
POD 1	**16.0 AF**	**5.3 AF**	**50 GAL/MIN (max instant)**	**IRRIGATION**	**4.0**	**2.0**

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SECTION 4

SYSTEM DESCRIPTION

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Are there multiple PODs? NO

If *"YES"* you will need to copy and complete a separate Section 4 for each POD.

POD Name or Number this section describes (only needed if there is more than one):

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A. Place of Use

Attach Claim of Beneficial Use map.

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Gov Lot), Quarter-Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Gov Lot, and QQ.

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of diversion to the place of use.

1. Is a pump used? YES

If "NO" items 2 through item 5 may be deleted.

2. Pump Information:

Manufacturer	Model	Serial Number	Type (centrifugal, turbine or submersible)
BERKELEY PUMPS	B1WPS	D04P049	CENTRIFUGAL

3. Theoretical Pump Capacity:

Horsepower	Operating PSI	Lift from Source to Pump	Lift from Pump to Place of Use	Total Pump Output (in CFS)
5	70	10 FT	40 FT	0.66

4. Provide pump calculations:

Q PUMP = (5HP)x(6.61)/50ft = 0.661CFS

5. Measured Pump Capacity (using meter if meter was present and system was operating):

Initial Meter Reading	Ending Meter Reading	Duration of Time Observed	Total Pump Output (in CFS)
1,863,530 GAL	1,863,780 GAL	5 MIN	0.11 CFS

Reminder: For pump calculations use the reference information at the end of this document.

6. Sprinkler Information:

Size	Operating PSI	Sprinkler Output (GPM)	Total Number of Sprinklers	Maximum Number Used	Total Sprinkler Output (CFS)
SEE	ATTACHED	WATER	DELIVERY	SYSTEM	DESCRIPTION

Reminder: For sprinkler output determination use the reference information at the end of this document.

7. Drip Emitter Information:

Size	Operating PSI	Emitter Output (GPM)	Total Number of Emitters	Maximum Number Used	Total Emitter Output (CFS)
NONE					

8. Drip Tape Information:

Dripper Spacing in Inches	GPM per 100 Feet	Total Length of Tape	Maximum length of Tape Used	Total Tape Output (CFS)	Additional Information
NONE					

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C. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir)? NO

If "NO", item 2 and 3 relating to this section may be deleted.

If "YES" is it a: Storage Tank NO
Bulge in System / Reservoir NO

Complete appropriate table(s), unused table may be deleted.

2. Storage Tank:

Material (concrete, fiberglass, metal, etc.)	Capacity (in gallons)	Above Ground or Buried

3. Bulge in System / Reservoir:

Reservoir Name or Number (correspond to map)	Approximate Dam Height	Approximate Capacity (in acre feet)

D. Gravity Flow Pipe

(The Department typically uses the Hazen-William's formula for a gravity flow pipe system)

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1. Does the system involve a gravity flow pipe? NO

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

Pipe Size	Pipe Type	"C" factor	Amount of Fall	Length of Pipe	Slope	Computed Rate of Water Flow (in cfs)

3. Provide calculations:

4. If an actual measurement was taken, provide the following:

Date of Measurement	Who Made the Measurement	Measurement Method	Measured Quantity of Water (in cfs)

Attach measurement notes.

E. Gravity Flow Canal or Ditch

(The Department typically uses Manning's formula for canals and ditches)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system? NO

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

Canal or Ditch Type (material)	Top Width of Canal or Ditch	Bottom Width of Canal or Ditch	Depth	"N" Factor	Amount of Fall	Length of Canal / Ditch	Slope	Computed Rate (in cfs)

3. Provide calculations:

4. If an actual measurement was taken, provide the following:

Date of Measurement	Who Made the Measurement	Measurement Method	Measured Quantity of Water (in cfs)

Attach measurement notes.

F. Additional notes or comments related to the system:

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SECTION 5

CONDITIONS

All conditions contained in the permit, permit amendment, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits and any extension final orders contain any or all of the following dates: the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit or extension final order:

	Date from Permit	Date Accomplished*	Description of Actions Taken by Water User to Comply with the Time Limits
Issuance Date	4/27/2005		
Begin construction (A)		4/28/2005	Presumed by old owner
Complete construction (B)		8/26/2005	Was completed when Cook purchased property
Complete application of water (C)		10/1/2009	Finished modifying for Cook's needs

* Must be within period between permit or any extension final order issuance and the date to completely apply water

2. Is there an extension final order(s)? NO

If "NO", items a and b relating to this section may be deleted.

a. Did the Extension Final Order require the submittal of Progress Reports?

If "NO", item b relating to this section may be deleted.

b. Were the Progress Reports submitted?

If the reports have not been submitted, attach a copy of the reports if available.

3. Measurement Conditions:

a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device? YES

If "NO", items b through f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion.

b. Has a meter been installed? YES

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c. Meter Information

POD Name or #	Manufacturer	Serial #	Condition (working or not)	Current Meter Reading	Date Installed
P.O.D. 1	NETAFIM	24-50000322	WORKING	1,863,780 GAL	MARCH 2025 (REPLACED OLD ONE)

If a meter has been installed, items d through f relating to this section may be deleted.

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department?

e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

Name	Title	Approximate Date

f. Measurement Device Description

Device Description	Condition (working or not)	Date Installed

4. Recording and reporting conditions:

a. Is the water user required to report the water use to the Department? **NO**

If "NO", item b relating to this section may be deleted.

b. Have the reports been submitted?
If the reports have not been submitted, attach a copy of the reports if available.

5. Fish Screening:

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? **YES**

If "NO", items b through e relating to this section may be deleted.

Reminder: If fish screening devices were required, the COBU map must indicate their location in relation to the point of diversion.

b. Has the fish screening been installed? **YES**

c. When was the fish screening installed?

Date	By Whom
APRIL 2025	MR. COOK'S LANDSCAPER (REPLACE OLD ONE NOT WORKING PROPERLY)

Reminder: If the permit or transfer final order was issued on or after February 1, 2011, the fish screen is required to be approved by the Oregon Department of Fish and Wildlife regardless of the rate of diversion.

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d. If the diversion **involves a pump** *and* the **total** diversion rate of all rights at the point of diversion is less than 225 gpm (0.5 cfs):

- Has the self-certification form previously been submitted to the Department? **NO**

If not, go to https://www.oregon.gov/OWRD/Forms/Pages/default.aspx
complete and attach a copy of the 'ODFW Small Pump Screen Self Certification' form to this claim, and send a copy of it to the Oregon Department of Fish and Wildlife (ODFW).

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. The ODFW self certification form needs to have been previously submitted or be attached to this form.

e. If the diversion does **not involve a pump** *or* the **total** diversion rate of all rights at the point of diversion is 225 gpm (0.5 cfs) or greater:

- Has the ODFW approval been previously submitted? **NA**

If not, contact and work with ODFW to ensure compliance. To demonstrate compliance, provide signed documentation from ODFW. A form is available at
https://www.oregon.gov/OWRD/Forms/Pages/default.aspx

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. In order to receive a favorable approval, the ODFW/WRD "Fish Screen Inspection" form needs to have been previously submitted or be attached to this form.

6. By-pass Devices:

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion? **NO**

If "NO", items b and c relating to this section may be deleted.

Reminder: If by-pass devices were required, the COBU map must indicate their location in relation to the point of diversion.

b. Have by-pass devices been installed?

c. Describe the diversion works as related to whether a by-pass device is installed or unnecessary:

DESCRIPTION (E.G. "ODFW HAS APPROVED THE BY-PASS DEVICE" OR "NO BY-PASS DEVICE IS NECESSARY BECAUSE THERE IS A DIRECT DIVERSION FROM THE STREAM VIA A PUMP ON RIVER LEFT STREAM BANK WITH FOOT VALVE DESCENDING DIRECTLY INTO NATURAL POOL.") IN ADDITION, YOU MAY ATTACH PHOTOS TO THIS CLAIM.	IF INSTALLED (DATE)	IF INSTALLED, BY WHOM

(Provide a letter from ODFW indicating the device is approved or is unnecessary.)

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7. Other conditions required by permit, permit amendment final order, or extension final order:

a. Was the water user required to restore the riparian area if it was disturbed? **NO**

b. Other conditions? **NO**

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

SECTION 6

ATTACHMENTS

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION
FISH SCREEN	**ODFW LETTER AND FISH SCREEN INFO**
PUMP	**PUMP INFORMATION**
WATER DELIVERY SYSTEM DESC.	**WATER DELIVERY SYSTEM DESCRIPTION LETTER**
WATER METER	**WATER METER INFORMATION**
SPRINKLERS	**SPRINKLER INFORMATION**

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SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

I used a combination of GPS and an aerial photo for the locations of the features shown on the map. The aerial photo was taken from the Josephine County, Oregon online GIS (property data map) from October 2025. The location of the northeast corner of Section 17 and the NE1/4NE1/4 is based upon a previous property survey that our office had done for a neighbor in 2011.

Map Checklist

Please be sure that the map you submit includes ALL the items listed below.
(Reminder: Incomplete maps and/or claims may be returned.)

- [X] Map on polyester film.
- [X] Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- [X] Township, Range, Section, Donation Land Claims, and Government Lots
- [X] If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- [X] Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- [X] Locations of meters and/or measuring devices in relationship to point of diversion
- [X] Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- [X] Point(s) of diversion or appropriation (illustrated and coordinates)
- [X] Tax lot boundaries and numbers
- [X] Quarter-Quarters illustrated and named (NE NE, NW NE, etc.)
- [X] Source illustrated if surface water
- [X] Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- [X] Application and permit number or transfer number
- [X] North arrow
- [X] Legend
- [X] CWRE stamp and signature

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STATE OF OREGON

COUNTY OF JOSEPHINE

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

ROGER EBNER
3380 FISH HATCHERY (541)479-6789
GRANTS PASS, OR 97527

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: S-86006

SOURCE OF WATER: APPLEGATE RESERVOIR, CONSTRUCTED UNDER PERMIT R-7810, A TRIBUTARY OF APPLEGATE RIVER

PURPOSE OR USE: IRRIGATION USE ON 4.0 ACRES

MAXIMUM VOLUME: 16.0 ACRE FEET EACH YEAR

PERIOD OF USE: APRIL 1 THROUGH OCTOBER 31

DATE OF PRIORITY: MAY 13, 2004

POINT OF DIVERSION LOCATION: NE ¼ NE ¼, SECTION 17, T37S, R6W, W.M.; 620 FEET SOUTH & 20 FEET WEST FROM NE CORNER, SECTION 17

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-FIFTIETH of one cubic foot per second and 4.5 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

NE ¼ NE ¼ 4.0 ACRES
SECTION 17
TOWNSHIP 37 SOUTH, RANGE 6 WEST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the water user shall install a meter or other suitable measuring device as approved by the Director. The water user shall maintain the meter or measuring device in good working order.

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B. The water user shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

C. The Director may require the water user to keep and maintain a record of the amount (volume) of water used and may require the water user to report water use on a periodic schedule as established by the Director. In addition, the Director may require the water user to report general water use information, the periods of water use and the place and nature of use of water under the permit. The Director may provide an opportunity for the water user to submit alternative reporting procedures for review and approval.

The water user shall install, maintain, and operate fish screening and by-pass devices as required by the Oregon Department of Fish and Wildlife to prevent fish from entering the proposed diversion. The required screens and by-pass devices are to be in place, functional and approved by an ODFW representative prior to diversion of any water.

The water user shall not construct, operate or maintain any dam or artificial obstruction to fish passage in the channel of the subject stream without providing a fishway to ensure adequate upstream and downstream passage for fish. The applicant is hereby directed to contact an Oregon Department of Fish and Wildlife Fish Passage Coordinator before beginning construction of any in-channel obstruction.

The use of water under this right is subject to the terms and conditions of contract #049E101428, or a satisfactory replacement, between the Bureau of Reclamation and the applicant, a copy of which is on file in the records of the Water Resources Department.

STANDARD CONDITIONS

Where two or more water users agree among themselves as to the manner of rotation in the use of water and such agreement is placed in writing and filed by such water users with the watermaster, and such rotation system does not infringe upon such prior rights of any water user not a party to such rotation plan, the watermaster shall distribute the water according to such agreement.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

The use of water allowed herein may be made only at times when sufficient water is available to satisfy all prior rights, including prior rights for maintaining instream flows.

Complete application of the water to the use shall be made on or before October 1, 2009. If the water is not completely applied before this date, and the water user wishes to continue development under the permit, the water user must submit an application for extension of time, which may be approved based upon the merit of the application.

Within one year after complete application of water to the proposed use, the water user shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued April 27, 2005

Dwight Smith for
Phillip C. Ward, Director
Water Resources Department

STATE OF OREGON 1859

ASSIGNMENT OF PERMIT: Pursuant to ORS 536.220, this permit may be assigned to a party other than the water user named hereon, if the land the permit is associated with changes ownership or if the water user is an organization whose name changes as a result of sale or merger. Request for Assignment forms are available from the Oregon Water Resources Department web site at http://www.wrd.state.or.us/, or may be requested from the Department at 503-986-0801 or Water Right Application Section, Oregon Water Resources Department, 725 Summer St NE Ste A, Salem OR 97301-1271.

MAILING ADDRESS CHANGES: If the mailing address of the water user named hereon changes, it is important that the Oregon Water Resources Department be informed of the change. Address changes must be submitted in writing with the water user's signature to Water Right Application Section, Oregon Water Resources Department, 725 Summer St NE Ste A, Salem OR 97301-1271.

REAL ESTATE TRANSACTIONS: Pursuant to ORS 537.330, in any transaction for the conveyance of real estate that includes any portion of the lands described in this permit, the seller of the real estate shall, upon accepting an offer to purchase that real estate, also inform the purchaser in writing whether any permit, transfer approval order, or certificate evidencing the water right is available and that the seller will deliver any permit, transfer approval order or certificate to the purchaser at closing, if the permit, transfer approval order or certificate is available.

CULTURAL RESOURCES PROTECTION LAWS: Water users involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction or alteration of an archeological site or object, or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, extension 232.

W.W.M.

NTY

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MAY 03 2004
WATER RESOURCES DEPT
SALEM, OREGON

37s 6w 17

SCALE 1" = 400'

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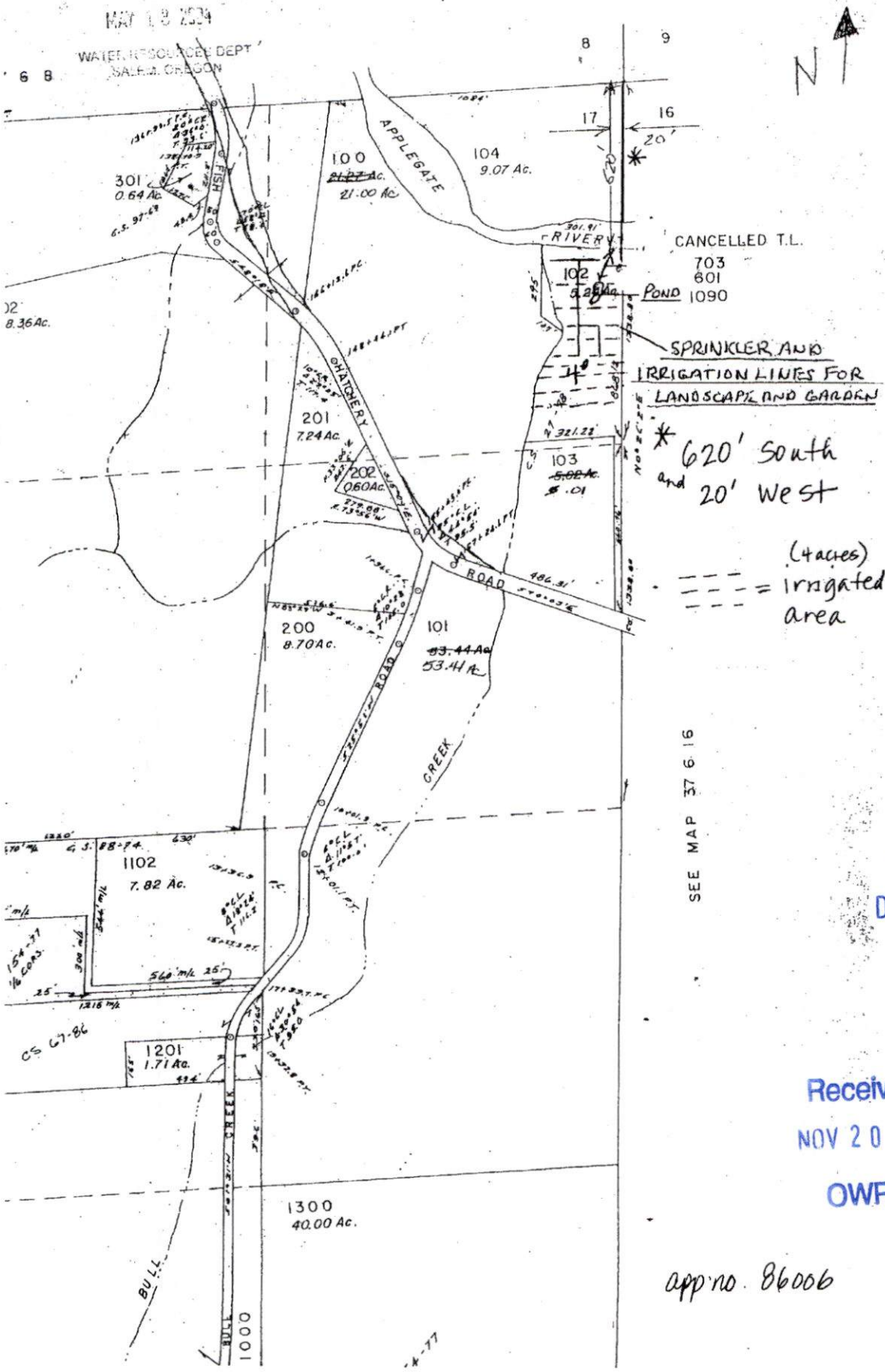
MAY 13 2004
WATER RESOURCES DEPT
SALEM, OREGON



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app no. 86006

321 Northwest "A" Street
Grants Pass, Oregon 97526

Allen Land Surveying, Inc.

Office: 541-476-4502
Email:toddjz@qwestoffice.net

P-54172

November 14, 2025

WATER DELIVERY SYSTEM DESCRIPTION

The following is a description of the water delivery system that was installed prior to Mr. Cook purchasing the property on August 26, 2005 (Permit issued April 27, 2005). Mr. Cook has replaced the fish screen, water meter and many other parts of the system as part of the ongoing maintenance of the delivery system since his purchase in 2005. To the best of my knowledge all parts of the water delivery system are being used and in working order as of my inspection conducted on October 8, 2025. The system that will be described begins at the Point of Diversion (P.O.D.) and goes through the water places of beneficial use.

The P.O.D. consists of a Sure-Flo self-cleaning strainer, Model SCS3-DD-M18 (fish screen-see attached letter from Oregon Dept. of Fish and Wildlife dated April 16, 2025) in the water of the Applegate River. The fish screen noted here was installed in April 2025 to replace the previous one that was not functioning properly. The screen is connected to a 4" suction hose then necked down to 1-1/2" at the intake side of the pump. The pump is a Berkeley Type B Pump, Model B1WPS (serial no. D04P049) connected to a Baldor, Cat. No. JML1409T, 5HP, 230V, electric motor (Spec. No. 36K077W925G1, 3500 RPM). The elevation from the intake to the highest sprinkler is 50' which is below the pump curve. For this report I will use 90 GPM (0.20 CFS) for the maximum pump output. The output pipe size of the pump is 1" which goes into a 4" PVC baffle and tee. The water meter is connected to the pvc tee. The water meter is a 2" Netafim, Model No. WM-200-10-RS, measured in GPM (Serial No. 24-50000322). The current meter was installed in March of 2025 when it was discovered that the old one, installed prior to Mr. Cook purchasing the property, was not functioning. The current reading on the meter is 1,863,780 Gallons (5.72 ac ft). It is unknown what the starting reading was when installed. The water then travels through approximately 550' of 3" PVC supply pipeline. The 11 irrigation zones are each connected to the 3" supply pipeline at various locations along the pipeline. The water is then applied for beneficial use through sprinklers. Each zone has a range of water application between 25 GPM to 60 GPM depending on the sprinkler configuration. Each zone is operated for a maximum duration of 20 minutes once a day throughout the irrigation season between April 1 and October 31, less days and/or run time if watering is not needed as much. All water zones are controlled by a Hunter ICC2 control system set to automatically run at set times and days.

Zone descriptions:

Zone 1: Backflow for cleaning fish screen, water is diverted before meter but 100% of the water is returned back to the Applegate River. This zone is run a couple times a week for 5 minutes each time.
Calc. per manufacture specs: 14 GPM x 5 min = 70 Gal each time (returned back to river).

Zones 2, 3, 4, 9, 10 & 11: Sprinklers, Model-Hunter Pro-Spray for irrigation of bushes and trees, 20 to 25 sprinklers each zone. Each zone runs for 20 minutes one time each day.
Measured use at meter: 40 GPM max x 20 min = 800 Gal each day per zone (maximum) (70 PSI at pump)
Calc. total: 800 Gal x 6 zones = 4,800 Gal per day (maximum)

Zone 5: 12 Lawn sprinklers, Model-Hunter PGP-ADJ for irrigation of lawn, for 20 minutes one time each day.
Measured use at meter: 50 GPM x 20 min = 1,000 Gal each day (70 PSI at pump)

321 Northwest "A" Street
Grants Pass, Oregon 97526

Allen Land Surveying, Inc.

Office: 541-476-4502
Email:toddjz@qwestoffice.net

Zone 6: 10 Lawn sprinklers, Model-Hunter PGP-ADJ for irrigation of lawn, for 20 minutes one time each day.
Measured use at meter: 40 GPM x 20 min = 800 Gal each day (70 PSI at pump)

Zone 7: 11 Lawn sprinklers, Model-Hunter PGP-ADJ for irrigation of lawn, for 20 minutes one time each day.
Measured use at meter: 45 GPM x 20 min = 900 Gal each day (70 PSI at pump)

Zone 8: 8 Lawn sprinklers, Model-Hunter PGP-ADJ for irrigation of lawn, for 20 minutes one time each day.
Measured use at meter: 30 GPM x 20 min = 600 Gal each day (70 PSI at pump)

All Zones total per day: 8,100 Gal (0.025 ac-ft)

All Zones total per irrigation season (April 1 through October 31) maximum:
Calc: 213 days x 8,100 Gal per day = 1,725,300 Gal (5.3 ac-ft) (maximum at 20 min operation, each zone, each day of the irrigation season)

Prepared by: Todd J. Zeutzius
CWRE56123

Date: November 14, 2025

CERTIFIED WATER RIGHTS EXAMINER
56123WRE
TODD J. ZEUTZIUS
JUNE 12, 2008
STATE OF OREGON
RENEWS: 06/30/2026

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DEC 11 2025
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NOV 20 2025
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Oregon
Tina Kotek, Governor

Department of Fish and Wildlife
Rogue Watershed District Office
1495 East Gregory Rd.
Central Point, OR 97502
Phone: 541-826-8774
Fax: 541-826-8776
www.odfw.com

April 16, 2025

Cecil Cook
3380 Fish Hatchery Rd.
Grants Pass, OR 97527

Dear Cecil,

Regarding OWRD permit S-54172, ODFW has determined the fish screen at the point-of-diversion (42.359575, -123.426181) meets current fish protection criteria, and fish bypass devices are not necessary. This approval is contingent on the following: current conditions remain unchanged, screens are installed so effective screen area is submerged during operation, the screen is regularly inspected and maintained to ensure it remains in working order (including debris removal), and the screen is annually inspected when it is not in use. Thank you.

Sincerely,

Josh Kelsey
Screens and Passage Coordinator
Fish Screening and Passage Program
(541) 857-2424

EWING

Home Office
3441 E. Harbour Drive, Phoenix, AZ 85034
602.437.9530
EwingIrrigation.com | EwingLandscapeMaterials.com

INVOICE 25858889

CASH ACCT # 144533

154 Ewing Grants Pass
906 SW 6th St
Grants Pass OR 97526
PHN 5414795524 FAX 5414762136

ORDER # 21410439
PAGE 1 of 1
ORDERED 5/2/2025
TERMS COD

SOLD TO: ESLAMA YARD MAINTENANCE
144533
1121 NE D ST
GRANTS PASS OR 97526-2315
PH 5414412327

SHIP TO: ESLAMA YARD MAINTENANCE
1121 NE D Street
GRANTS PASS OR 97526
PH 5414412327

DELIVERY INSTRUCTIONS: Also

PO# _____ BUYER: HIGINIOLUIS PH: 5414791645
P21 JOB: _____ EIP#: _____ BY: BILLY R QUOTE#: 21399986
EWING JOB: _____ JOB REF: Fish Screen

QTY ORDER	QTY SHIP	QTY B/O	ITEM DESCRIPTION	NET	EXTENDED	LINE#
1.00	1.00	0.00	99880000 SCS3DD-M18 .047" hole	700.0000	700.00	1
1.00	1.00	0.00	04429040 4 PVC COUPLING SS	6.0562	6.06	3
1.00	1.00	0.00	04438420 4 X 2 PVC RED BUSHING ST	7.8356	7.84	4

SUB-TOTAL:	713.90
TOTAL FREIGHT:	0.97
TAX:	0.00
CHECK (BUSINESS/OTHER):	714.87
UNAPPLIED PAYMENT:	0
AMOUNT DUE:	0.00

Check(s): 1095

FILLED BY _____
DATE _____

SIGNATURE _____ DELIVERED BY _____
Acknowledgement of receipt of goods listed above.
PRINT NAME _____ DATE _____

NO CASH REFUNDS. Sale subject to terms and conditions on reverse
No recommendations have been made by, or provided to, the seller concerning the use of the pesticide covered by this invoice.
PROPOSITION 65 WARNING: Some of the products on your order may expose you to chemicals that are known to the State of Californiato cause cancer, birth defects and reproductive harm.Learn more at https://www.P65warnings.ca.gov/

REMIT TO:
Ewing Irrigation Products Inc.
P.O. Box 208728
Dallas, TX 75320-8728

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NOV 20 2025
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FISH SCREEN INFO (SEE PAGE #3)

SURE-FLO® Self-Cleaning Strainers

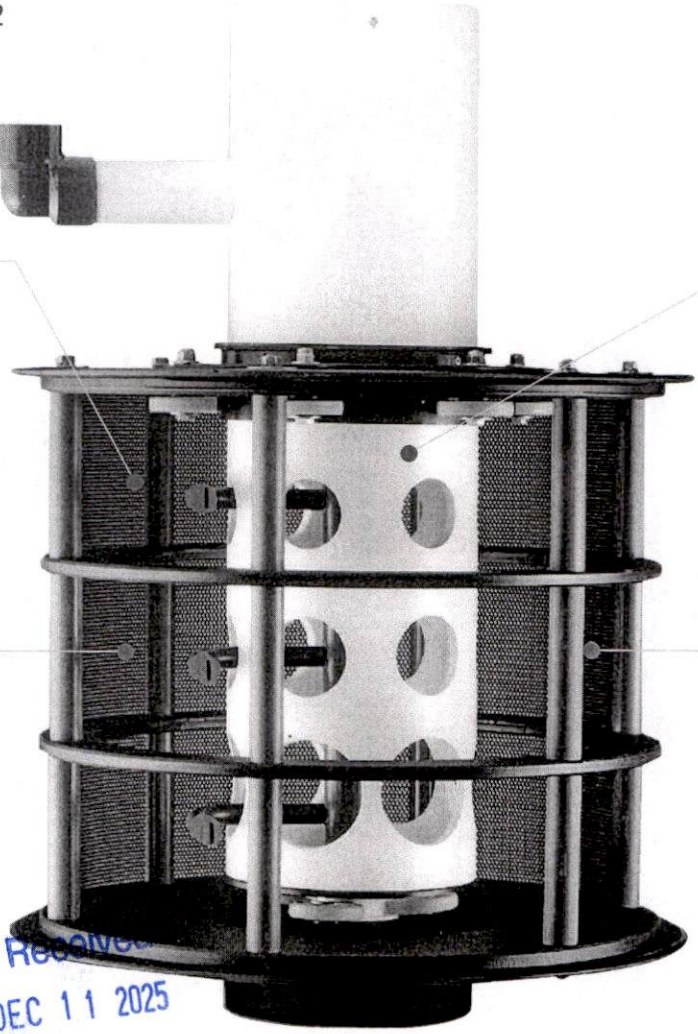
Quality and Service Since 1932

Sure-Flo has been the leader in self-cleaning strainer technology for more than 25 years. Outstanding product quality and unrivaled service are the reasons our customers keep coming back. Our products simply work better and offer better value.

The benefits of Sure-Flo self-cleaning strainers are the result of continuous engineering improvement. They are built better and offer superior cleaning to maximize the performance of your irrigation system.

Product Features and Benefits

US Patent Number 5993652



Superior Cleaning:
Screen revolves around the suction line, while stationary nozzles blow off and push away debris, creating a debris-free zone around the pump's intake.

Saves Time and Money:
With a clean suction screen, your pump operates efficiently, delivering water to your field in less time and using less energy.

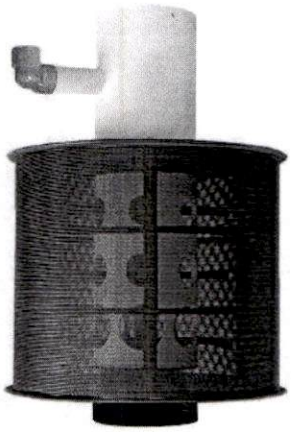
Built Better:
Internal suction tube creates even through-screen velocity, utilizing the entire height of the cylinder screen.

Built to Last:
Sure-Flo uses stainless steel hardware, rugged, buoyant, high-density polyethylene HDPE plastics, as well as a screen made from an aluminum sheet.

1/4

It all adds up to improving the efficiency of your pump, and improving your bottom line.

Single Drive: Required backwash pressure 60 or 65 psi (nozzles on one side)



Standard Aluminum Screen 3/32" Holes

Single Drive Aluminum Screen								
Model Number	Strainer Capacity GPM	m^3/hr	GPM Used to Backwash	Pressure Needed to Backwash	Supply Line Size	Screen Dimensions Height x Width	Weight (lbs.)	Overall Height
SCS2	50	11	See Page 4					
SCS3	160	36	8	60 psi	1"	6" X 10.5"	10	15.5"
SCS4	325	74	16	60 psi	1"	12" X 10.5"	13	21.5"
SCS6	625	142	24	60 psi	1"	14.25" X 16.5"	25	26"
SCS8	1150	261	32	60 psi	1.5"	21.75" X 20"	34	33"
SCS10	1500	341	43	65 psi	2"	24" X 24"	55	35.5"
SCS10BB	1900	432	51	65 psi	2"	30" X 24"	65	41.5"
SCS10XL	2500	568	77	65 psi	2"	30" X 30"	90	41.5"
SCS12XL	2500	568	77	65 psi	2"	30" X 30"	90	41.5"

Foot Valves: For Self-Cleaning Strainers

A conversion tube connects the foot valve to the strainer. The conversion tube easily slides over the strainer neck and is firmly secured with pre-installed stainless bolts. With the addition of this conversion tube, existing foot valves can also be modified to work with Sure-Flo self-cleaning strainers.

Detail of foot valve seat ring with a cast socket conversion tube

Detail of foot valve for self-cleaning strainer

Detail of foot valve connected to a self-cleaning strainer

45° Foot Valve:

45° Foot Valve: O.D. tubing, 3" to 10"

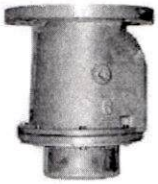
45° Foot Valve: Female NPT thread, 3" to 10"

45° Foot Valve: Companion flange, 3" to 10"

Vertical Foot Valve:

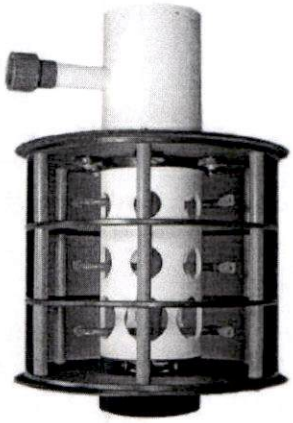
Vertical Foot Valve: O.D. tubing, 3" to 10"

Vertical Foot Valve: Female NPT thread, 3" to 10"



Vertical Foot Valve: Companion flange, 3" to 12"

Dual Drive: Required backwash pressure 45 psi (nozzles on two sides)



Standard Aluminum Screen 3/32" Holes

Dual Drive Aluminum Screen							
Model Number	Strainer Capacity GPM	m^3/hr	GPM Used to Backwash	Supply Line Size	Screen Dimensions Height x Width	Weight (lbs.)	Overall Height
SCS3-DD	200	45	14	1"	6" X 10.5"	10	15.5"
SCS4-DD	400	91	28	1"	12" X 10.5"	14	21.5"
SCS6-DD	725	165	42	1.5"	14.25" X 16.5"	25	26"
SCS8-DD	1450	330	56	2"	21.75" X 20"	35	33"
SCS10-DD	1875	426	70	2"	24" X 24"	55	35.5"
SCS10BB-DD	2350	534	84	2.5"	30" X 24"	65	41.5"
SCS10XL-DD	2950	670	84	2.5"	30" X 30"	90	41.5"
SCS12XL-DD	2950	670	84	2.5"	30" X 30"	90	41.5"

Aluminum Screen with Stainless Mesh

Dual Drive Aluminum Screen with Stainless Steel Mesh							
18 Mesh S. S. Model Number	Strainer Capacity GPM	m^3/hr	GPM Used to Backwash	32 Mesh S. S. Model Number	Strainer Capacity GPM	m^3/hr	GPM Used to Backwash
SCS3-DD-M18	140	32	14	**SCS3-DD-M32**	120	27	14
SCS4-DD-M18	300	68	28	**SCS4-DD-M32**	255	58	28
SCS6-DD-M18	550	125	42	**SCS6-DD-M32**	475	108	42
SCS8-DD-M18	1025	232	56	**SCS8-DD-M32**	880	200	56
SCS10-DD-M18	1330	302	70	**SCS10-DD-M32**	1140	260	70
SCS10BB-DD-M18	1675	380	84	**SCS10BB-DD-M32**	1440	327	84
SCS10XL-DD-M18	2100	477	84	**SCS10XL-DD-M32**	1800	409	84
SCS12XL-DD-M18	2100	477	84	**SCS12XL-DD-M32**	1800	409	84

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Perforated Stainless Screen
.117" Perf. 16ga 316SS

Dual Drive Perforated Stainless Steel Screen (55 psi required)						
Model Number	Strainer Capacity GPM	m^3/hr	GPM Used to Backwash	Supply Line Size	Screen Dimensions Height x Width	Overall Height
SCS3-DD-SS	190	43	16	1"	6" X 10.5"	15.5"
SCS4-DD-SS	380	86	32	1"	12" X 10.5"	21.5"
SCS6-DD-SS	675	153	48	1.5"	14.25" X 16.5"	26"
SCS8-DD-SS	1350	307	64	2"	21.75" X 20"	33"
SCS10-DD-SS	1780	403	80	2"	24" X 24"	35.5"
SCS10BB-DD-SS	2200	498	96	2.5"	30" X 24"	41.5"
SCS10XL-DD-SS	2700	612	96	2.5"	30" X 30"	41.5"
SCS12XL-DD-SS	2700	612	96	2.5"	30" X 30"	41.5"

The Sure-Flo Difference – continuous engineering improvements

Superior Cleaning saves you time and money

Screens that revolve past stationary internal nozzles clean best. As the screen rotates past the nozzles, debris is blown off and pushed away from the strainer. The directional spray is effective at shedding debris and moving it far enough away that it doesn't become re-attached.

A clean suction screen lets the pump run efficiently, saving energy and getting water to the field faster. Not having to stop the pump to clean debris saves time and lowers maintenance costs.

Better Engineering, Better Value

Built with strong, lightweight, buoyant HDPE plastics to maximize the strength of the strainer skeleton, without adding unnecessary weight.

The strainer is made of a rigid powder-epoxy coated, perforated aluminum sheet, not wire mesh like competitive products. This makes it stronger and more durable.

High-performance, abrasion-resistant Delrin plastic injection-molded wear parts are strong, and easily and inexpensively replaced.

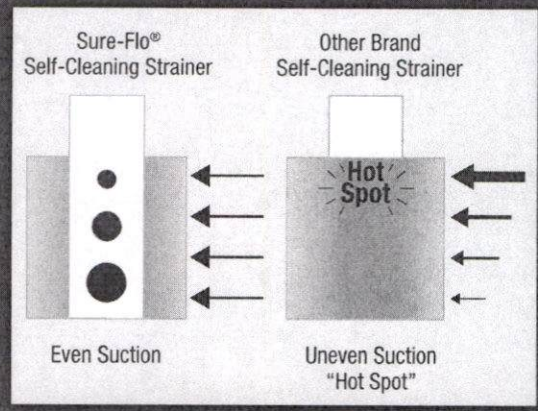
All hardware is stainless steel for worry free durability.

Fish-friendly –

Small strainer screen holes and low-velocity water flows meet government regulations for protection of fish. The ultra-efficient design of the Sure-Flo system – with rotating screen and cleaning nozzles – allows the screen holes to be smaller than those of other strainers. The smaller holes also offer better protection of the pump, in many cases eliminating the need for a filter.

We Eliminate Hot Spots

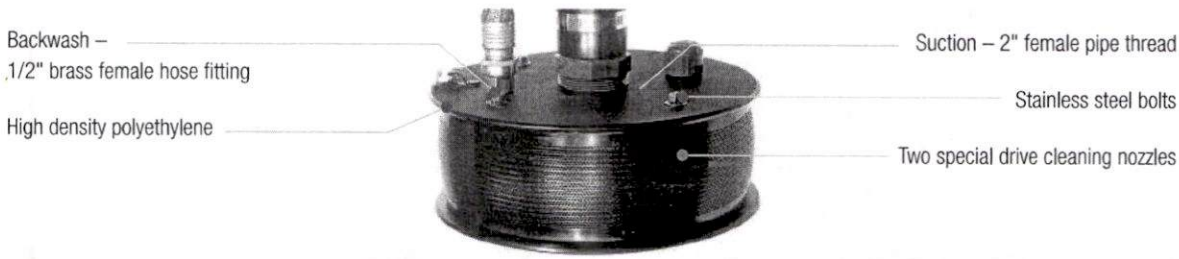
Our strainers are designed with internal PVC suction tube with smaller holes at the top, (nearer to the pump), and larger holes at the bottom (farther from the pump) to even the draw or suction across the entire height of the cylinder screen. This prevents water from flowing in harder at the top of the screen, which leads to "hot spots." (Clogging). Our screens utilize the full surface area for extremely consistent through-screen velocity, which maximizes the effectiveness of the cleaning nozzles.



SCS2: 50 gpm Self-Cleaning Strainers

How these strainers work.

A small amount of water is returned from the discharge side of the pump to the strainer. Inside, two special nozzles spray against the screen, causing it to revolve. Any debris (e.g., algae, aquatic plants, or leaves) attracted to the screen is blasted off every half revolution. Strainers operate in any position, and require only 35 psi to operate.



Model Number	Strainer Capacity GPM	Capacity m3/hour	GPM to Backwash	Backwash Pressure	Supply Line Size	Screen Diameter	Screen Height	Weight (lbs.)
SCS2	50	11	5	35 psi	5/8"	10.5"	3.5"	5

When you look at what matters most – dependable, durable performance that saves time, energy and money – Sure-Flo is the only choice. We have set the standard for irrigation technology for more than a quarter century, and continue to lead the industry in product design.

SURE-FLO®
734.761.5110 | FX 734.761.8659 | sure-flo.com
2077 S.State St. P.O. Box 1363 | Ann Arbor, MI USA 48106

SURE-FLO. FITTINGS

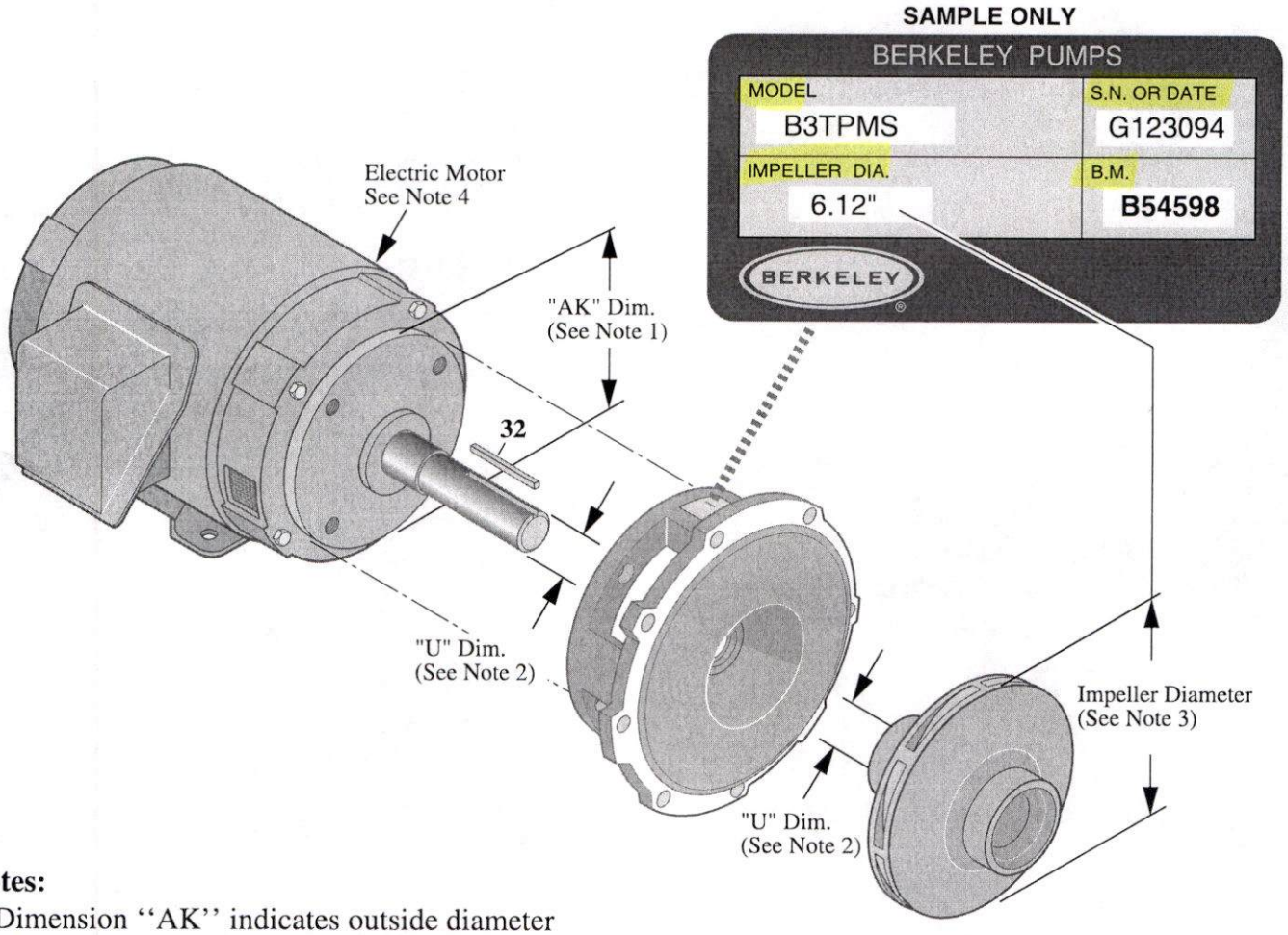
BERKELEY®

Type "B" Single Stage Centrifugal Pump

Electric Motor Drive

Section	CC
Page	Supplement A
Date	July 1, 2011
Supersedes 1/1/04	

Mechanical Shaft Seal Construction
Packing Construction



Notes:

1. Dimension ''AK'' indicates outside diameter of male register fit on end of motor and is used in conjunction with motor frame size and motor bracket fit. Refer to TABLE II on parts sheets.
2. Dimension ''U'' indicates motor shaft diameter and nominal impeller shaft bore.
3. Impeller diameter shown in TABLE I of the parts sheets is the current catalog standard for each model and horsepower. When ordering impeller, specify diameter that is indicated on nameplate as shown above.
4. Electric motors are available for replacement, consult factory for information and availability. **NOTE**: Shaft sleeve (Item 14) must be ordered with replacement motor, refer to individual parts listings for sleeve requirements.

Parts Ordering Information

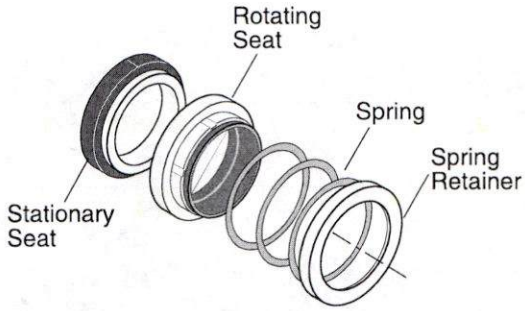
The diagrams and parts lists given on the following pages depict a typical pump configuration. It is most important that before calling in for repair instructions, or when ordering replacement parts, locate the Berkeley nameplate on the pump. It is affixed to the motor bracket, as shown here. Provide all nameplate data, especially the S.N OR DATE number and the B.M. (Bill of Material) number to ensure receiving correct parts.

BERKELEY®

TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP
Electric Motor Drive

Section	CC
Supplement	B
Date	January 1, 2004
Supersedes 6/1/95	

Mechanical Seal Construction

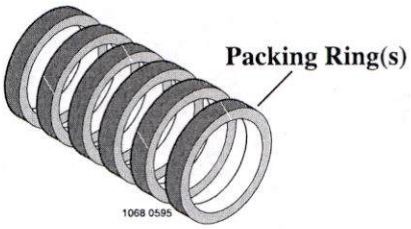


Typical Mechanical Seal

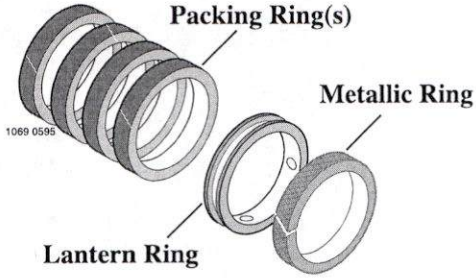
Standard Mechnical Seal/ Shaft Sleeve Combinations

SEAL		SLEEVE	
P/N	**Description**	**P/N**	**Description**
S32013	1-1/4" Type 21 Long	**S00619**	1" I.D. x 1-1/4" O.D.
S32014	1-1/4" Type 21 Short	**S19310**	1" I.D. x 1-1/4" O.D.
S32015	1-3/4" Type 21 Short	**S18869**	1-3/8" I.D. x 1-3/4" O.D.
M10227	1-3/4" Type 2	**S18869**	1-3/8" I.D. x 1-3/4" O.D.
S32016	2-1/8" Type 21 Long	**S07073**	1-3/4" I.D. x 2-1/8" O.D.
S39264	2-1/8" Type 21 Short	**M09669**	1-3/4" I.D. x 2-1/8" O.D.
S32697	2-3/4" Type 21	**S29517**	2-1/4" I.D. x 2-3/4" O.D.

Packing Construction



Typical Packing Set - Soft Rings Only



Typical Packing Set With Soft Rings, Lantern Ring, and Hard (Metallic) Ring

Standard Packing Sets Shown on Repair Parts Sheets

Packing Set P/N	No. of Soft Rings	Metallic Ring	Ring I.D.	Ring O.D.	Cross Section
S14109	5	None	1-1/4"	1-7/8"	5/16"
S13469	6	None	1-1/4"	1-7/8"	5/16"
S15094	7	None	1-1/4"	1-7/8"	5/16"
S13435	4	S11092	1-3/4"	2-1/2"	3/8"
S13470	6	None	1-3/4"	2-1/2"	3/8"
S13437	4	S11093	2-1/8"	2-7/8"	3/8"
S13444	5	S11093	2-1/8"	2-7/8"	3/8"
S16448	5	S14327	2-3/4"	3-3/4"	1/2"

NOTE: Part numbers given on repair parts sheets for packing rings reflects complete set of soft rings required for each model. Some models also require a hard (metallic) ring that is installed as shown above. Hard ring comes as part of the set, when required, and is in *addition* to the soft ring count shown (set of 5, set of 6, etc.). Metallic part number shown for reference only. Lantern Ring (item #29) is sold separately.

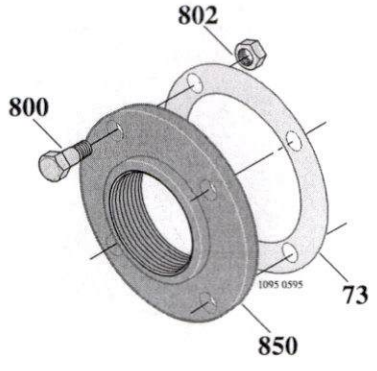
BERKELEY®

TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP
Electric Motor Drive

Section	CC
Supplement	C1
Date	January 1, 2004
Supersedes 6/1/95	

COMPANION FLANGE KITS

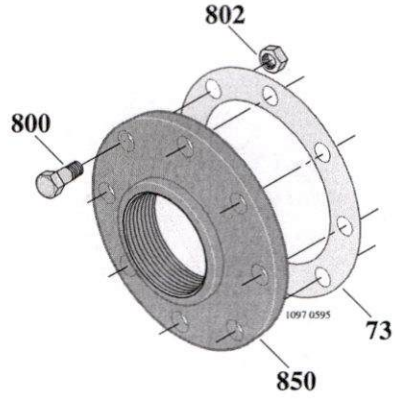
3" NPT x 7-1/2" O.D.



Key	Part Description	Part No.
73	Gasket	S10364
800	Capscrew, 5/8 - 11 x 2-1/2" (4 Req.)	S27004
802	Nut, Hex 5/8 - 11 (4 Req.)	S23109
850	Flange, Companion, 125 lb.	S11788

B60129

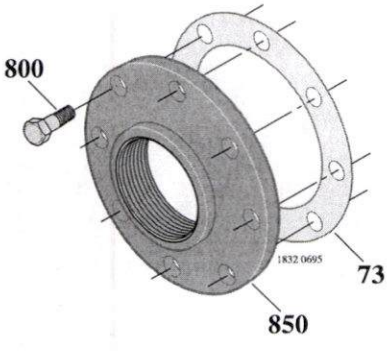
4" NPT x 9" O.D.



Key	Part Description	Part No.
73	Gasket	S10366
800	Capscrew, 5/8 - 11 x 2-1/2" (8 Req.)	S27005
802	Nut, Hex 5/8 - 11 (8 Req.)	S23109
850	Flange, Companion, 125 lb.	S11790

B59870

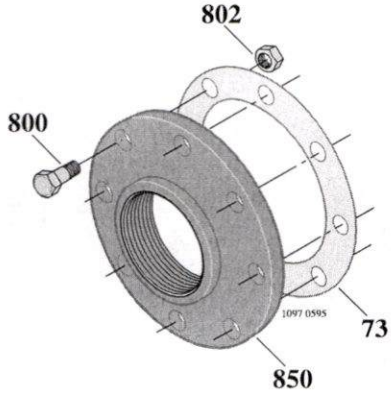
4" NPT x 9" O.D.



Key	Part Description	Part No.
73	Gasket	S10366
800	Capscrew, 5/8 - 11 x 1-3/4" (8 Req.)	S27001
850	Flange, Companion, 125 lb.	S11790

B74303

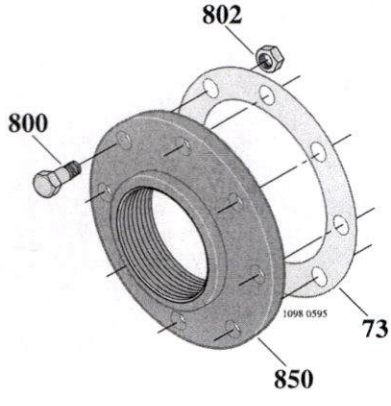
5" NPT x 10" O.D.



Key	Part Description	Part No.
73	Gasket	S10367
800	Capscrew, 3/4 - 10 x 3" (8 Req.)	S27333
802	Nut, Hex 3/4 - 10 (8 Req.)	S23111
850	Flange, Companion, 125 lb.	S11791

B59871

6" NPT x 11" O.D.



Key	Part Description	Part No.
73	Gasket	S10368
800	Capscrew, 3/4 - 10 x 3" (8 Req.)	S27333
802	Nut, Hex 3/4 - 10 (8 Req.)	S23111
850	Flange, Companion, 125 lb.	S11792

B59872

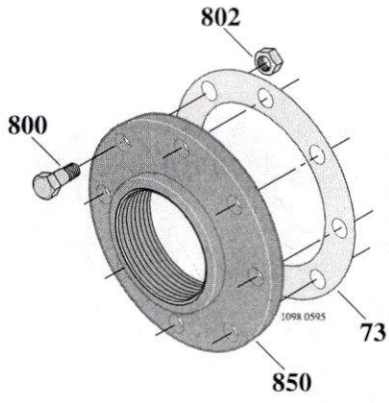
BERKELEY®

TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP
Electric Motor Drive

Section	CC
Supplement	C2
Date	January 1, 2004
Supersedes 6/1/95	

Companion Flange Kits

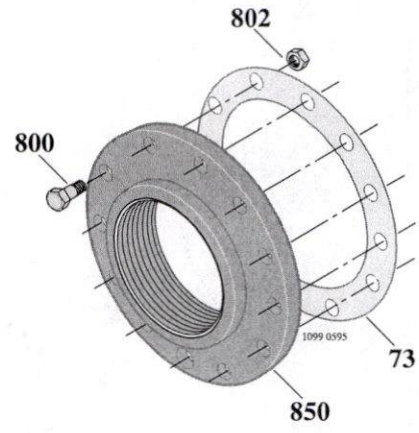
8" NPT x 13-1/2" O.D.



Key	Part Description	Part No.
73	Gasket	S10369
800	Capscrew, 3/4 - 10 x 2-3/4" (8 Req.)	S27332
802	Nut, Hex 3/4 - 10 (8 Req.)	S23111
850	Flange, Companion, 125 lb.	S11793

B59873

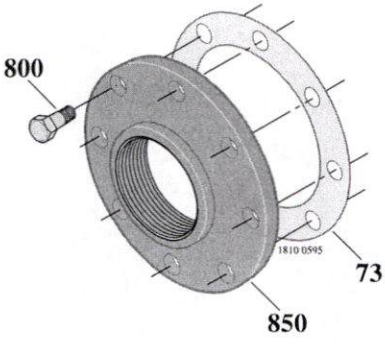
10" NPT x 16" O.D.



Key	Part Description	Part No.
73	Gasket	S10370
800	Capscrew, 7/8 - 9 x 3" (12 Req.)	S23307
802	Nut, Hex 7/8 - 9 (12 Req.)	S23113
850	Flange, Companion, 125 lb.	S11794

B59874

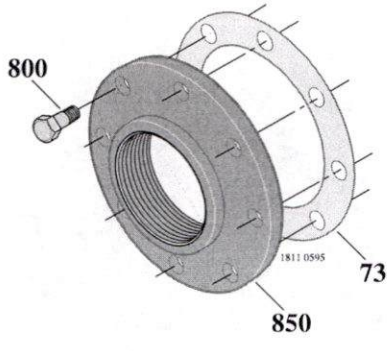
5" NPT x 10" O.D.



Key	Part Description	Part No.
73	Gasket	S10367
800	Capscrew, 3/4 - 10 x 1-3/4" (8 Req.)	S27327
850	Flange, Companion, 125 lb.	S11791

B59875

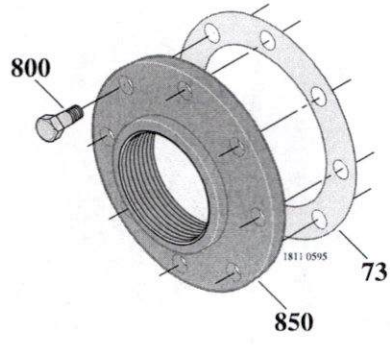
6" NPT x 10" O.D.



Key	Part Description	Part No.
73	Gasket	S10367
800	Capscrew, 3/4 - 10 x 2-1/4" (8 Req.)	S27330
850	Flange, Companion, 125 lb.	S02178

B59876

6" NPT x 11" O.D.



Key	Part Description	Part No.
73	Gasket	S10368
800	Capscrew, 3/4 - 10 x 2" (8 Req.)	S27329
850	Flange, Companion, 125 lb.	S11792

B59877

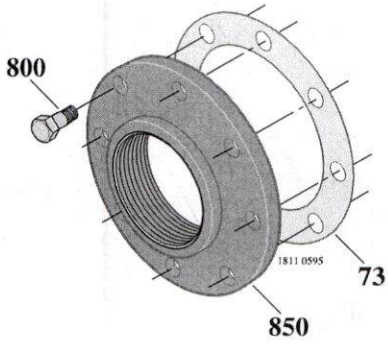
BERKELEY®

TYPE "B" SINGLE STAGE CENTRIFUGAL PUMP
Electric Motor Drive

Section	CC
Supplement	C3
Date	January 1, 2004
Supersedes 6/1/95	

Companion Flange Kits

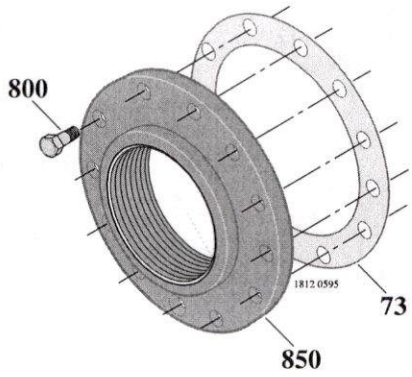
8" NPT x 13-1/2" O.D.



Key	Part Description	Part No.
73	Gasket	S10369
800	Capscrew, 3/4 - 10 x 2" (8 Req.)	S27329
850	Flange, Companion, 125 lb.	S11793

B59878

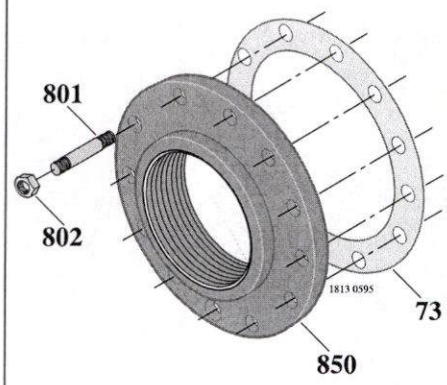
10" NPT x 16" O.D.



Key	Part Description	Part No.
73	Gasket	S10370
800	Capscrew, 7/8 - 9 x 2" (12 Req.)	S23303
850	Flange, Companion, 125 lb.	S11794

B59879

12" NPT x 19" O.D.



Key	Part Description	Part No.
73	Gasket	S10371
800	Capscrew, 7/8 - 9 x 3" (12 Req.)	S23307
802	Nut, Hex 7/8 - 9 (12 Req.)	S23113
850	Flange, Companion, 125 lb.	S11795

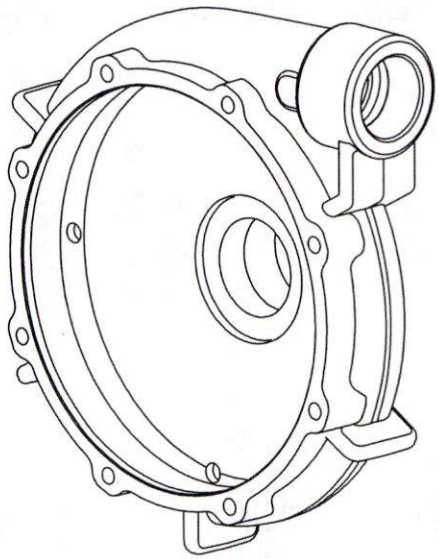
B59880

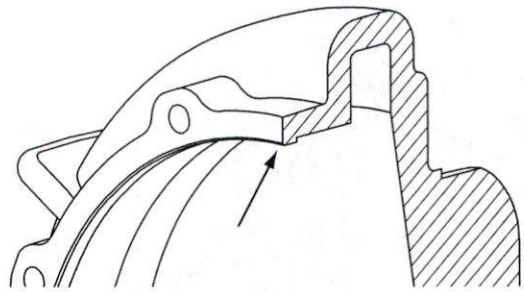
BERKELEY®

Type "B" Single Stage Centrifugal Pump
Electric Motor Drive

Section	CC
Page	Supplement E
Date	July 1, 2011
Supersedes 1/1/04	

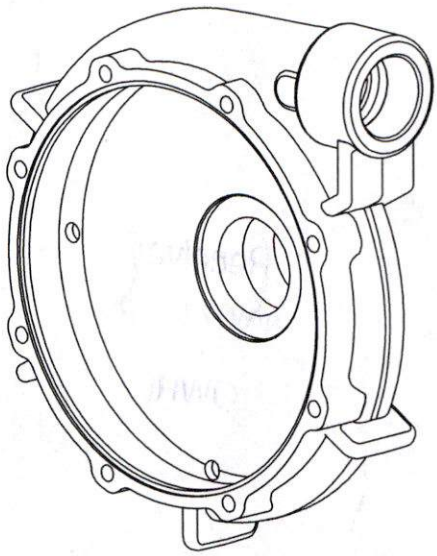
Volute Sealing: Gasket Only

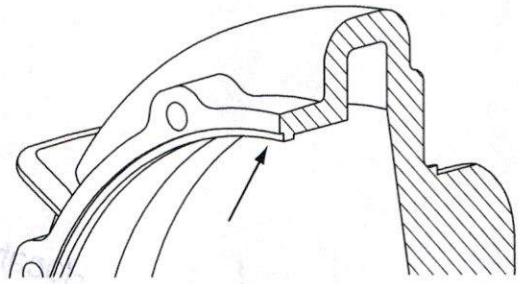




Style 1: There is a small chamfer along the back face of the volute, but no circumferential o-ring groove. This volute can ONLY be sealed with a gasket.

Volute Sealing: O-ring or Gasket



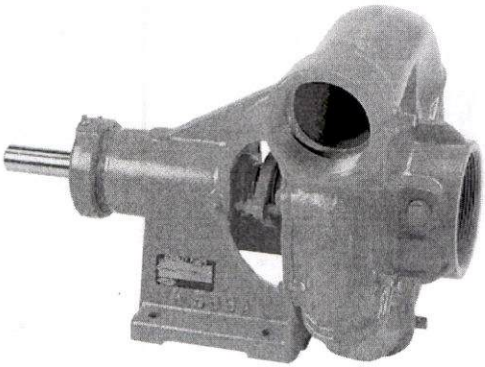


Style 2: O-ring groove machined into back face of volute. This volute can be sealed with a gasket or with an o-ring.

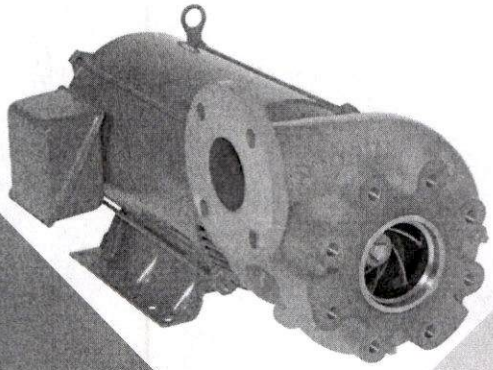
PENTAIR
BERKELEY

CENTRIFUGAL PUMPS TYPE B

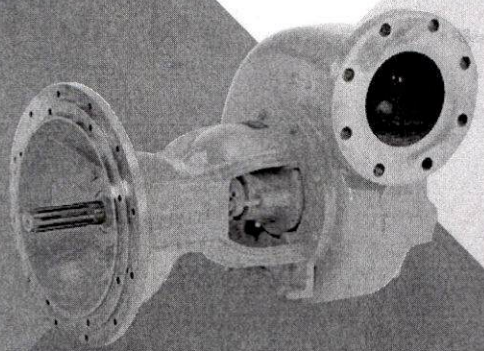
PUMP PERFORMANCE



Frame Mount (FM)



Close Coupled Motor Drive (CCMD)



Engine Drive SAE

PUMP MODEL NOMENCLATURE

NAME PLATE EXAMPLE:

B 4 G P B H S

B – TYPE OF CONSTRUCTION
B = "Back Pull-Out" Design

4 – DISCHARGE SIZE (Inches)

G – NOMINAL IMPELLER DIAMETER (Inches)

3" = A	7" = W	11" = F	15" = EX	18" = EY
4" = M	8" = Y	12" = G	15.5" = XT	19" = EZ
5" = X	9" = Z	13" = J	16" = ET	20" = EE
6" = T	10" = E	14" = N	17" = EW	

P – TYPE OF DRIVE
P = Electric Motor – Pump Attached Directly to Motor Frame
Q = Engine Drive – Pump Attached Directly to Engine Frame
R = Frame Mounted Belt or Flexible Coupling Drive
RM = Special Duty Mounting Frame

B – SPECIAL FEATURES (Optional)
B = Hydraulically Balanced Impeller Design
K = Self-Priming

H – RELATIVE CAPACITY OF IMPELLER
LL = Very Low
L = Low
M = Medium (Often Omitted)
H = High
HH = Very High

2 – NUMBER OF STAGES (Optional)
(Single stages not indicated)

S – SHAFT SEAL (Optional)
S = Mechanical Seal (Packed Stuffing Box is not indicated)

10 – HORSEPOWER OF MOTOR OR ENGINE (Optional)
(Normally indicated on Engine Driven Pumps only)

The model configurations above illustrate the complete range of closed coupled product identification numbers.

PUMP SIZE EXAMPLE:

4" x 6" x 13" B H

4" – DISCHARGE SIZE (Inches)

6" – SUCTION SIZE (Inches)

13" – NOMINAL IMPELLER DIAMETER (Inches)

3" = A	7" = W	11" = F	15" = EX	18" = EY
4" = M	8" = Y	12" = G	15.5" = XT	19" = EZ
5" = X	9" = Z	13" = J	16" = ET	20" = EE
6" = T	10" = E	14" = N	17" = EW	

B – SPECIAL FEATURES (Optional)
B = Hydraulically Balanced Impeller Design

H – RELATIVE CAPACITY OF IMPELLER
LL = Very Low
L = Low
M = Medium (Often Omitted)
H = High
HH = Very High

Berkeley Type B Hydraulic Performance (by product group)

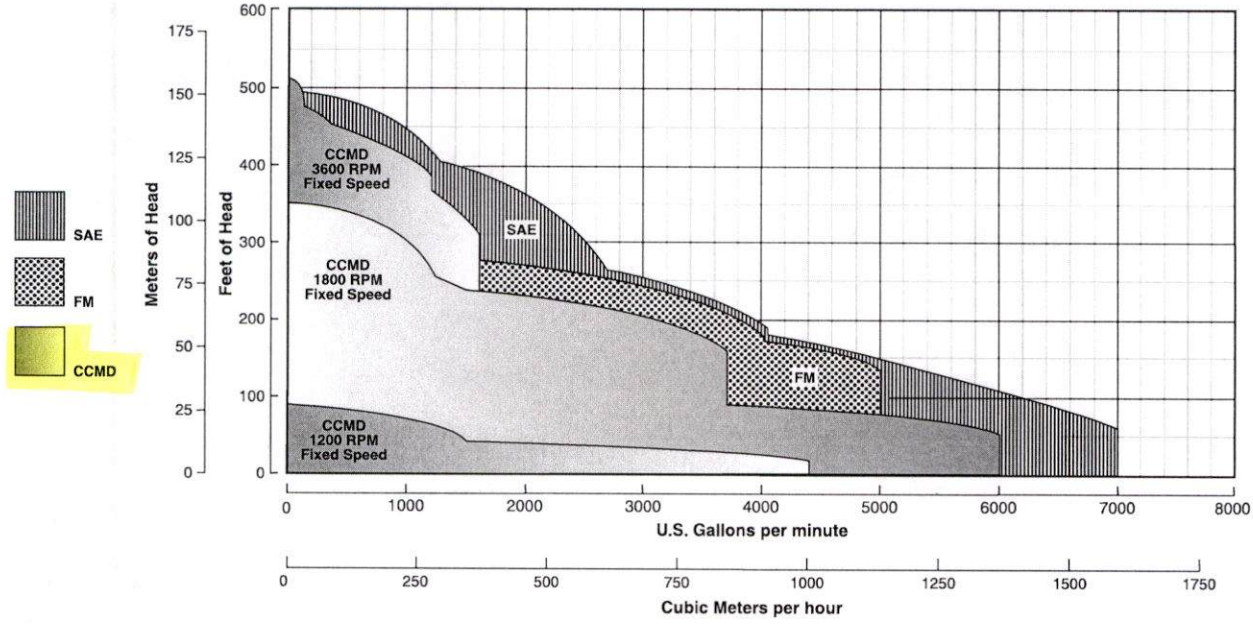


TABLE OF CONTENTS

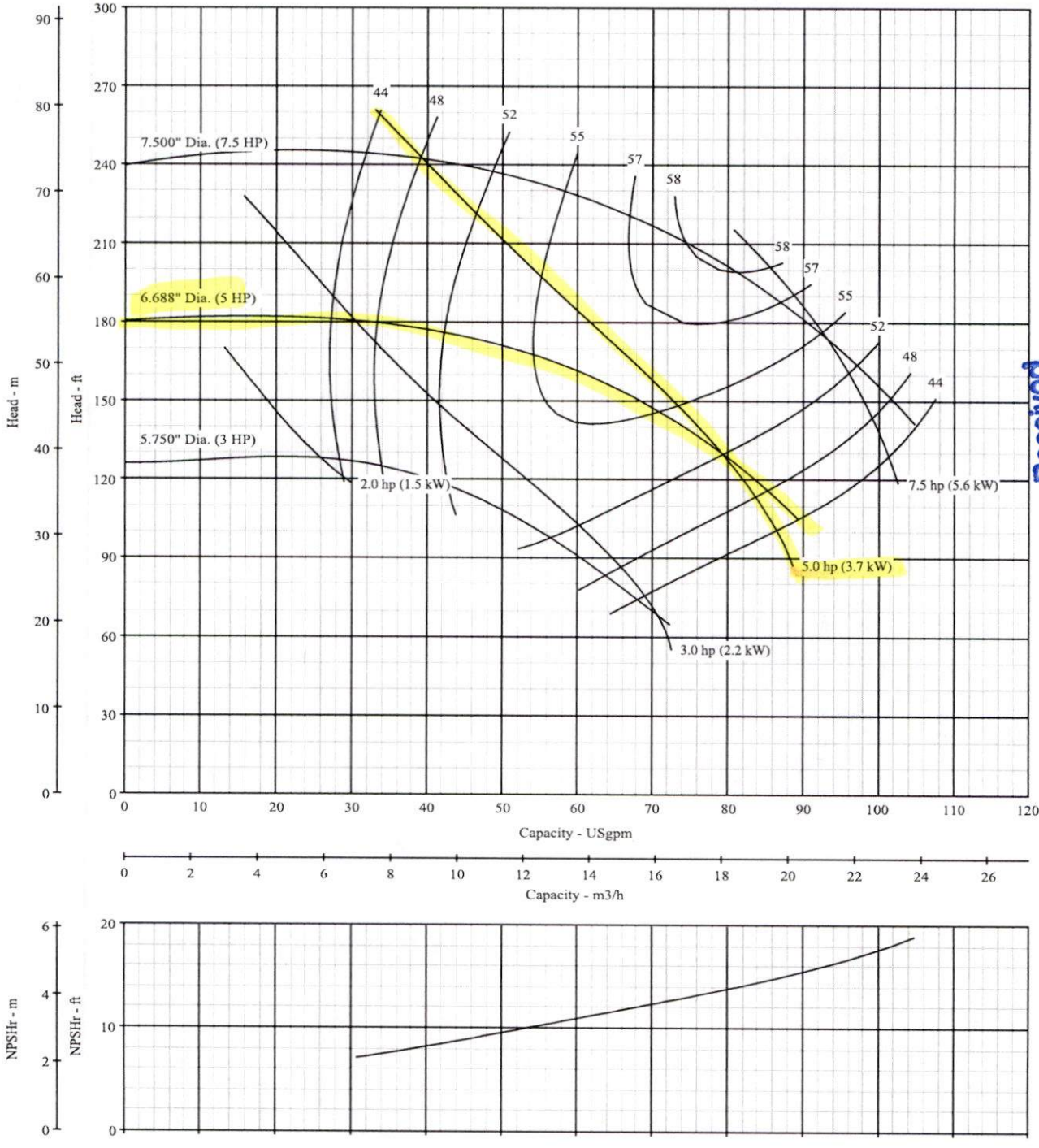
Pump Size: 1 x 1-1/2 x 7 W

Model: B1W_

Curve No. 8233

Type	CCMD	FM CPLG	FM BELT	SAE	Hydraulic	AC Engine
Model	B1WP					B1WQS-9 (7.35" Diameter Impeller)

Nominal RPM: **3450**
Based on Fresh Water @ 68°F (20°C)
Maximum Working Pressure: 266 PSI (18 BAR)



Pump Size: 1 x 1-1/2 x 7

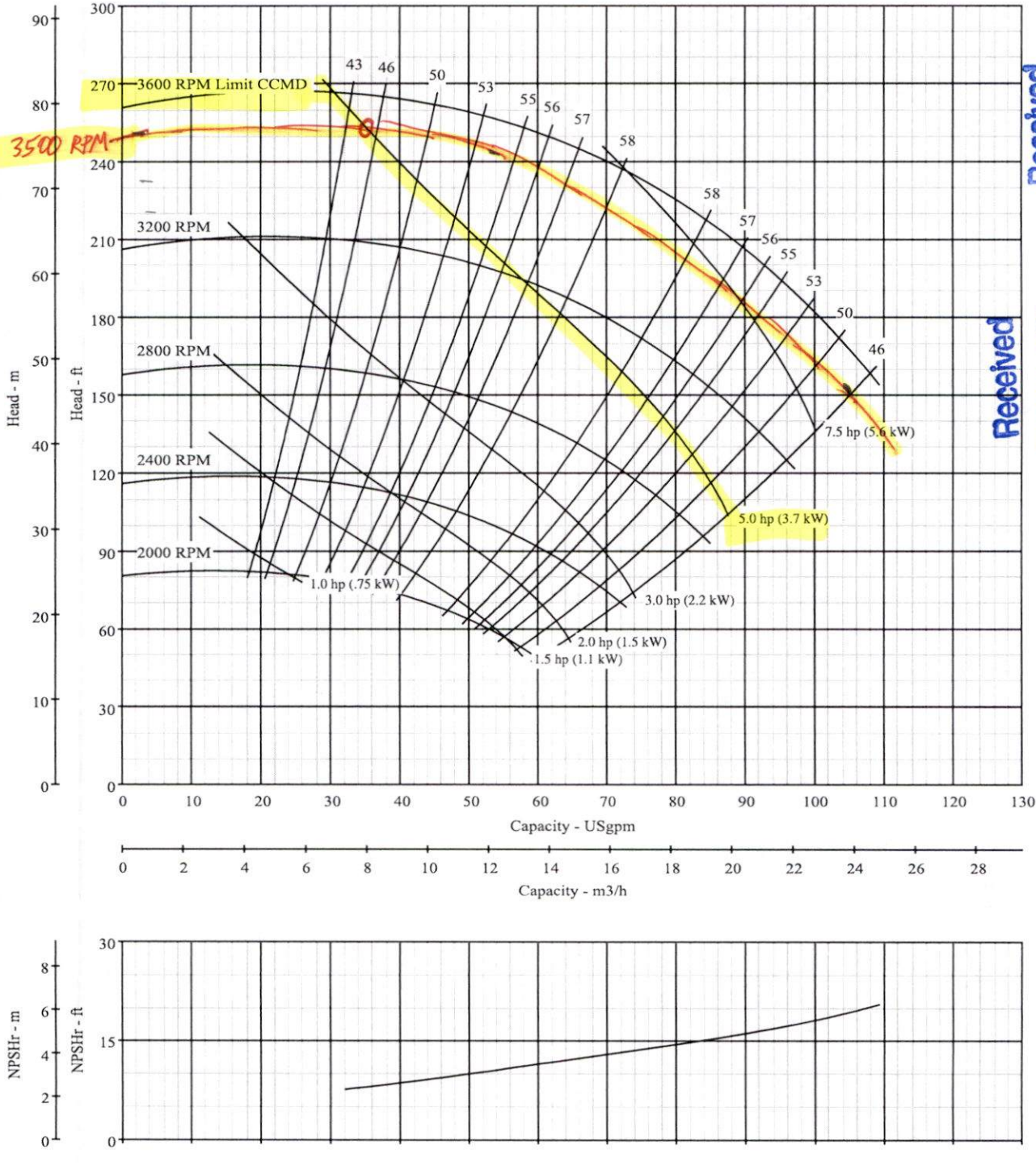
Model: B1W_

Curve No. 8233

Type	CCMD	FM CPLG	FM BELT	SAE	Hydraulic	AC Engine
Model	B1WP					
RPM	1801-3600					

Dia. 7.50"

Nominal RPM: **VARIOUS**
Based on Fresh Water @ 68°F (20°C)
Maximum Working Pressure: 266 PSI (18 BAR)



*NPSH data shown is at maximum speed

			PUMP SIZE		MODELS				
CURVE NO.	SERIES	MAXIMUM IMPELLER DIAMETER	DSCHG. x SUCT. x IMPELLER DIA.	MODEL	CCMD (1)	FM CPLG (2)	FM BELT (3)	SAE (4)	HYD (5)
7327	M	4"	1 x 1-1/4 x 4	B1MRS		B1MRS	B1MRS		
7328			1 x 1-1/4 x 4	B1XRS		B1XRS	B1XRS		
7902			1 x 1-1/4 x 4	B1XRMS		B1XRMS	B1XRMS		
2676			1-1/2 x 2 x 4	B1-1/2M_RS		B1-1/2MRS	B1-1/2MRS		
5035	T	6"	1-1/2x2x6L	B1-1/2T_L	B1-1/2TPL	B1-1/2TRLS	B1-1/2TRLS		
8888			1-1/2x2x6M	B1-1/2T_M	B1-1/2TPM				
8578			2x2-1/2x6M	B2T_M	B2TPM				
5000			2-1/2x3x6M	B2-1/2T_M	B2-1/2TPM	B2-1/2TRMS	B2-1/2TRMS		
5005			3x4x6M	B3T_M	B3TPM	B3TRMS	B3TRMS		
9068			3x4x6H	B3T_H	B3TPH				
9069			3x4x6HH	B3T_HH	B3TPHH				
8233	W	7"	1 x 1-1/2 x 7W	B1W_	B1WP				
3524			5x6x7W	B5W_	B5WP				
5036	Z	9"	1-1/2x2x9L	B1-1/2Z_L	B1-1/2ZPL	B1-1/2ZRL	B1-1/2ZRL		
9086			1-1/2x2x9H	B1-1/2Z_HS	B1-1/2ZPHS				
3558			1-1/2x2x9H	B1-1/2Z_HS	B1-1/2ZPHS				
8553			2x2-1/2x9L	B2Z_L	B2ZPL	B2ZRL			
2070			2x2-1/2x9M	B2Z_M		B2ZRM	B2ZRM	B2ZQM	
8940			2x2-1/2x9H	B2Z_H	B2ZPH				
5040			2-1/2x3x9L	B2-1/2Z_L	B2-1/2ZPL	B2-1/2ZRL	B2-1/2ZRL		
5020			2-1/2x3x9M	B2-1/2Z_M	B2-1/2ZPM	B2-1/2ZRM	B2-1/2ZRM	B2-1/2ZQM	
5006			3x4x9L	B3Z_L	B3ZPL				
5021			3x4x9M	B3Z_M	B3ZPM	B3ZRM	B3ZRM	B3ZQM	B3ZRM-HYD
8512			3x4x9BH	B3Z_BH	B3ZPBH				
4 x 5 x 9BH			4 x 5 x 9BH	B4Z_H	B4ZPBH	B4ZRBH	B4ZRBH	B4ZQBH	
5 x 6 x 9BH			5 x 6 x 9BH	B5Z_H	B5ZPBH	B5ZRBH	B5ZRBH	B5ZQBH	
5838			6x8x9L	B6Z_L	B6ZPL	B6ZRL	B6ZRL	B6ZQL	
7417			6x8x9M-CCW	B6Z_M-CCW		B6ZRM-CCW	B6ZRM-CCW		
9027			6x8x9H	B6Z_H	B6ZPH	B6ZRH	B6ZRH	B6ZQH	
6 x 8 x 9BHH			6 x 8 x 9BHH	B6Z_BHH	B6ZPBHH	B6ZRBHH	B6ZRBHH	B6ZQBHH	
9089	E	10"	1-1/2x2X10L	B1-1/2E_L	B1-1/2EPL	B1-1/2ERL	B1-1/2ERL	B1-1/2EQL	
6541			2x3X10BL	B2E_BL	B2EPBL				
7625			2x3x10L	B2E_L		B2ERL	B2ERL		
7626			2x3x10H	B2E_H		B2ERH	B2ERH		
6657			2x3x10BH	B2E_BH		B2ERBH	B2ERBH		
8671			2x3X10BHH	B2E_BHH	B2EPBHH				
8648			2x3X10HH	B2E_HH		B2ERHH	B2ERHH	B2EQHH	
8904			3x4x10BL	B3E_BL	B3EPBL	B3ERBL	B3ERBL	B3EQBL	
6545			3x4x10M	B3E_M	B3EPM	B3ERM	B3ERM		
8989			4x5x10BM	B4E_BM	B4EPBM	B4ERBM			
6425			4x5x10M	B4E_M	B4EPM	B4ERM	B4ERM	B4EQM	
8726			5x6x10BM	B5E_BM	B5EPBM				
7801			5x6x10H	B5E_H	B5EPH	B5ERH	B5ERH		
7801A			5X6X10BH	B5E_BH				B5EQBH	
1234	G	12"	4x5x12BH	B4G_BH	B4GPBH	B4GRMBH	B4GRMBH	B4GQBH	
5033			8x10x12BM	B8G_BM	B8GPBM	B8GRMBM	B8GRMBM	B8GQBM	
7632			10x12x12BM	B10G_BM - 4 pole	B10GPBM	B10GRMBM		B10GQBM	
7512			10x12x12BM	B10G_BM - 4 pole	B10GPBM	B10GRMBM	B10BRMBM	B10GQBM	
7045			2-1/2x4x13BL	B2-1/2J_BL				B2-1/2JQBL	
6266	J	13.5"	2-1/2x4x13BM	B2-1/2J_BM	B2-1/2JPBM	B2-1/2JRMBM	B2-1/2JRMBM	B2-1/2JQBM	B2-1/2JRMBM
5845			3x4x13BL	B3J_BL	B3JPBL				
5846			3x4x13BM	B3J_BM	B3JPBM	B3JRMBM	B3JRMBM	B3JQBM	B3JRMBM
9013			4x5x13BH	B4J_BH	B4JPBH	B4JRMBH	B4JRMBH	B4JQBH	B4JRMBH
9017			4x6x13BHH	B4J_BHH	B4JPBHH	B4JRMBHH	B4JRMBHH		
5026			6x8x13BL	B6J_BL	B6JPBL	B6JRMBL	B6JRMBL	B6JQBL	
8851			6x8x13BM	B6J_BM	B6JPBM-CW	B6JRMBM-CCW	B6JRMBM-CCW		
8851A			6x8x13BM-CW	B6J_BM-CW		B6JRMBM-CW	B6JRMBM-CW	B6JQBM-CW	
8934			6x8x13BH	B6J_BH	B6JPBH	B6JRMBH			
8x10x13 BH)			8x10x13 BH	B8J_BH	B8JPBH	B8JRBH	B8JRBH	B8JQBH	
10x12x13 BH)			10x12x13 BH	B10J_BH	B10JPBH	B10JRBH	B10JRBH	B10JQBH	
9112	EX	15.5"	4x5x15BL	B4EX_BL	B4EXPBL			B4EXQBL	
8443			5x6x15BH	B5EX_BH	B5EXPBH			B5EXQBHS	
7452			6x8x15BL	B6EX_BL	B6EXPBL	B6EXRBL	B6EXRBL		
8856			6X8X15BM	B6EX_BM				B6EXQBM	
8845			6x8x15BH	B6EX_BH	B6EXPBH	B6EXRBH	B6EXRBH		
3333A			6x8x15.5BH	B6XT_BH-15.5"				B6XTQBH-15.5"	
3333B			6x8x14BH	B6XT_BH-14"				B6XTQBH-14"	
6469	EY	18"	4x5x18BM	B4EY_BM	B4EYPBM	B4EYRMBM	B4EYRMBM	B4EYQBM	
5025			4x5x18BH	B4EY_BH	B4EYPBH	B4EYMBH	B4EYMBH	B4EYQBH	

BALDOR · RELIANCE

Product Information Packet

JML1409T

5HP,3500RPM,1PH,60HZ,184JM,3634LC,OPEN,F

Part Detail

Revision:	G	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	36WGW925	**CD Diagram:**	CD0017A02	**Mfg Plant:**	
Mech. Spec:	36M927	**Layout:**	36LYM927	**Poles:**	02	**Created Date:**	01-07-2010
Base:	RG	**Eff. Date:**	04-08-2019	**Leads:**	2#12 A PH,2#16 B PH		

Specs

Catalog Number:	JML1409T	**Inverter Code:**	Not Inverter
Enclosure:	OPEN	**KVA Code:**	H
Frame:	184JM	**Lifting Lugs:**	No Lifting Lugs
Frame Material:	Steel	**Locked Bearing Indicator:**	Locked Bearing
Output @ Frequency:	5.000 HP @ 60 HZ	**Motor Lead Quantity/Wire Size:**	2 @ 12 AWG, A PH
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	**Motor Lead Exit:**	Ko Box
Voltage @ Frequency:	230.0 V @ 60 HZ	**Motor Lead Termination:**	Flying Leads
XP Class and Group:	None	**Motor Type:**	3634LC
XP Division:	Not Applicable	**Mounting Arrangement:**	F1
Agency Approvals:	CSA	**Power Factor:**	96
	UR	**Product Family:**	General Purpose
Auxillary Box:	No Auxillary Box	**Pulley End Bearing Type:**	Ball
Auxillary Box Lead Termination:	None	**Pulley Face Code:**	C-Face
Base Indicator:	Rigid	**Pulley Shaft Indicator:**	Tapped & Key
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Rodent Screen:**	Included
Blower:	None	**Shaft Extension Location:**	Pulley End
Current @ Voltage:	21.500 A @ 230.0 V	**Shaft Ground Indicator:**	No Shaft Grounding
	23.000 A @ 208.0 V	**Shaft Rotation:**	Reversible

Design Code:	L	**Shaft Slinger Indicator:**	Shaft Slinger
Drip Cover:	No Drip Cover	**Speed Code:**	Single Speed
Duty Rating:	CONT	**Motor Standards:**	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	**Starting Method:**	Direct on line
Feedback Device:	NO FEEDBACK	**Thermal Device - Bearing:**	None
Front Face Code:	Standard	**Thermal Device - Winding:**	None
Front Shaft Indicator:	None	**Vibration Sensor Indicator:**	No Vibration Sensor
Heater Indicator:	No Heater	**Winding Thermal 1:**	None
Insulation Class:	F	**Winding Thermal 2:**	None

Nameplate NP1256L

CAT.NO.	JML1409T						
SPEC.	36M927W925G1						
HP	5						
VOLTS	230						
AMP	21.5						
RPM	3500						
FRAME	184JM		HZ	60		PH	1
SER.F.	1.15	CODE	H	DES	L	CLASS	F
NEMA-NOM-EFF	80	PF	96				
RATING	40C AMB-CONT						
CC					USABLE AT 208V	23	
DE	6207		ODE	6205			
ENCL	OPEN	SN					

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DEC 11 2025
OWRD

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NOV 20 2025
OWRD

Parts List		
Part Number	**Description**	**Quantity**
SA189558	SA 36M927W925G1	1.000 EA
RA177268	RA 36M927W925G1	1.000 EA
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
36EP3204D00	MASTER ODE,205 BRG,GRSR,RLF	1.000 EA
HA1103A08	RODENT SCREEN, 36 FRAME, OPEN, FRONT END	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 EA
HW1000A10	#10 FLAT WASHER (SAE)	4.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 EA
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 EA
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36PE3405A05	PUEP 182-4C OPEN 207 BRG W/BAFF. TSLV, G	1.000 EA
36AD2000	AIR BAFFLE	1.000 EA
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 EA
HA1102A07	RODENT SCREEN 36 OPEN FACE	2.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 EA
HW1000A10	#10 FLAT WASHER (SAE)	4.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 EA

Parts List (continued)		
Part Number	**Description**	**Quantity**
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
36CB4516	36 LIPPED CB LID - GALVANNEAL	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HA1005A07	SLINGER, OD 2.25, ID 1.344, 307 BRG	1.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.022 GA
SP5172A08	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 EA
HA3101A25	THRUBOLT 1/4-20 X 11.000 OHIO ROD	4.000 EA
36CB5005A04	CAPACITOR BOX KIT, 36CB3800, OC3035F09,	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
G7PA1000	PKG GRP, PRINT PK1034A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 65030 - Typical performance - not guaranteed values

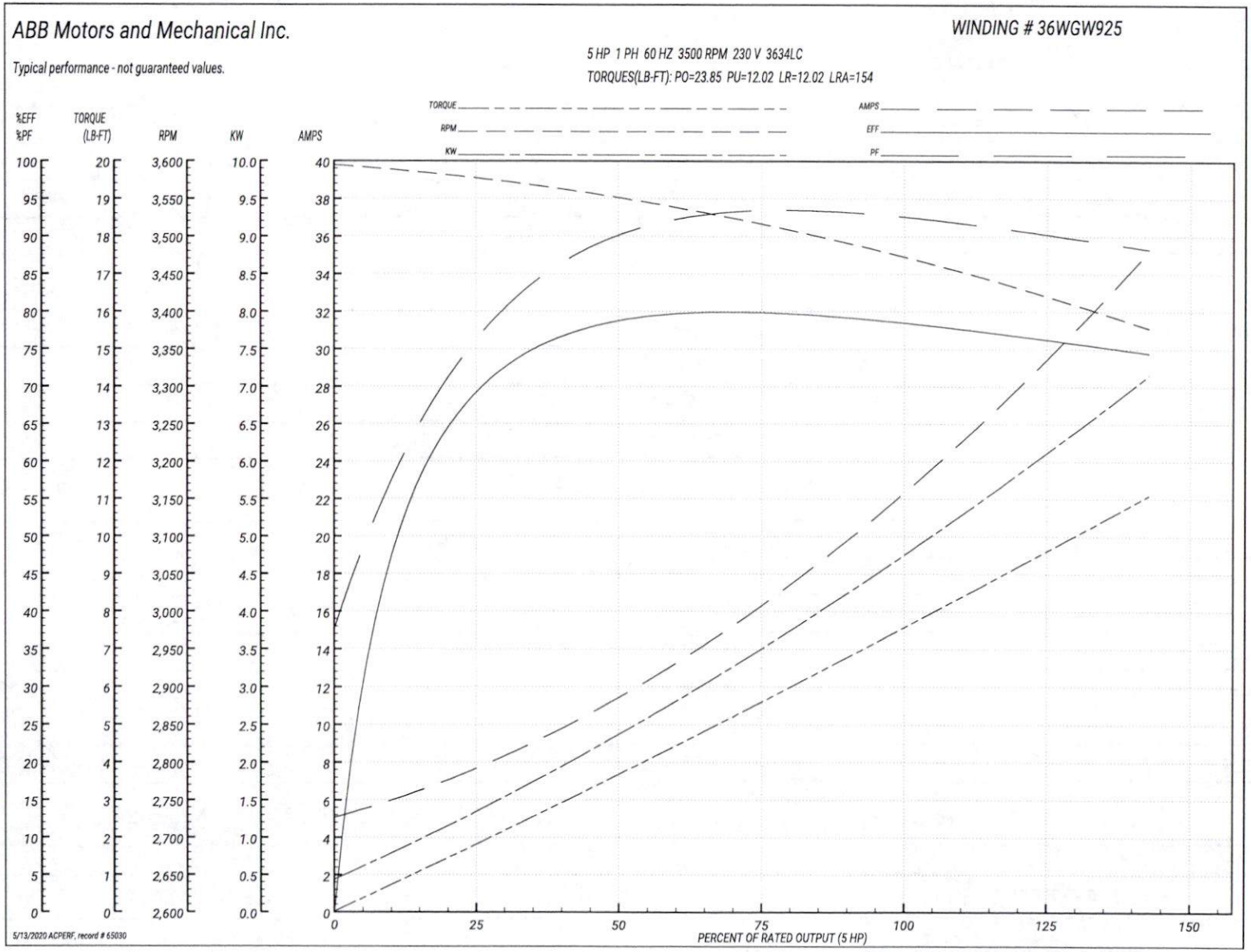
Winding: 36WGW925-R001	**Type:** 3634LC	**Enclosure:** OPEN

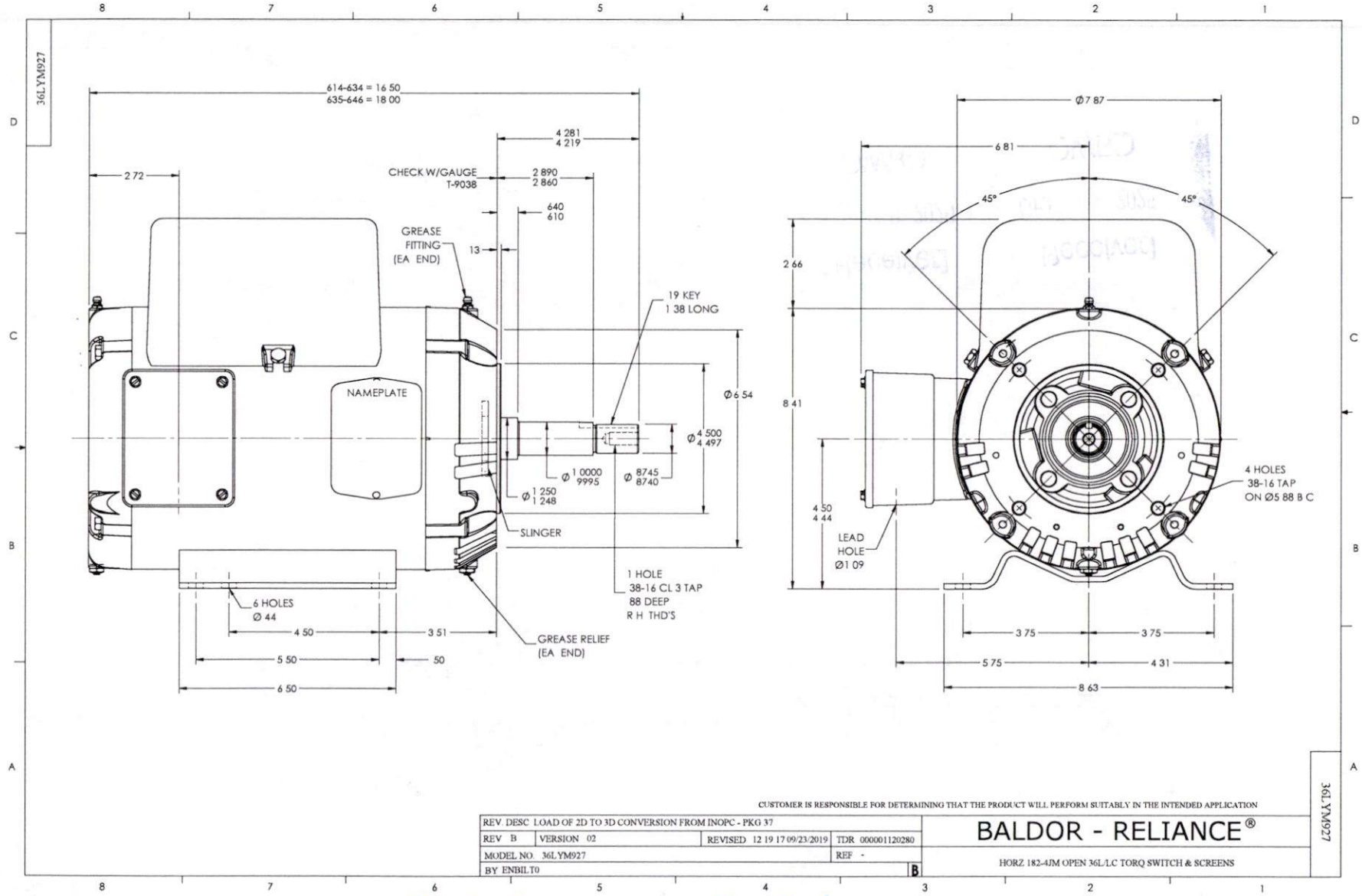
Nameplate Data				230 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	5			Full Load Torque	7.46 LB-FT
Volts	230			Start Configuration	direct on line
Full Load Amps	21.5			Breakdown Torque	23.85 LB-FT
R.P.M.	3500			Pull-up Torque	12.02 LB-FT
Hz	60	Phase	1	Locked-rotor Torque	12.02 LB-FT
NEMA Design Code	L	KVA Code	H	Starting Current	154 A
Service Factor (S.F.)	1.15			No-load Current	4.9 A
NEMA Nom. Eff.	75	Power Factor	88	Line-line Res. @ 25°C	0.316 Ω A Ph 0.937 Ω B Ph
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	83°C
S.F. Amps				Temp. Rise @ S.F. Load	96°C
				Locked-rotor Power Factor	76.8
				Rotor inertia	0.153 LB-FT2

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	81	89	92	93	92	88	92
Efficiency	66.1	77.2	79.8	79.6	77.5	73.7	78.3
Speed	3574	3546	3515	3480	3434	3372	3452
Line amperes	7.76	11.85	16.56	21.72	27.7	35.76	25.3

Performance Graph at 230V, 60Hz, 5.0HP Typical performance - Not guaranteed values





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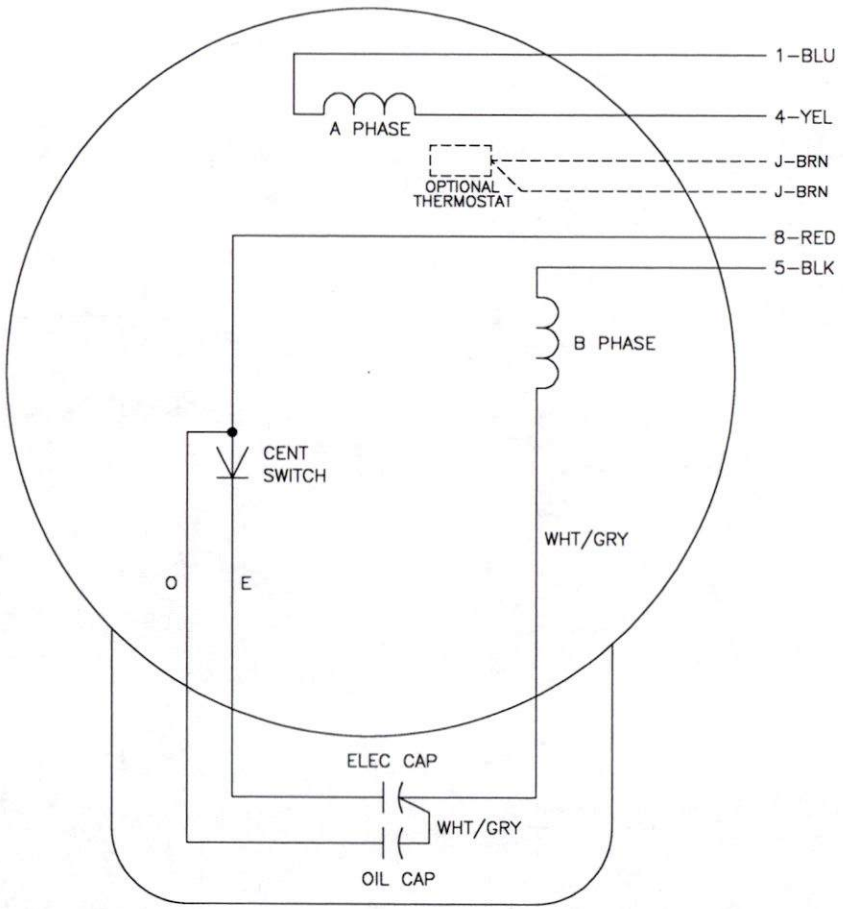

	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

Received NOV 20 2025 OWRD

Received DEC 11 2025 OWRD

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: B	BY: JLP	REVISED: 04/09/99 11:30	TDR: 0178636
CD0017A02		FILE: AAA00007514	MDL: –
		MTL: –	

BALDOR ELECTRIC Co.

TYPE LC, SV, REV, 4 LEADS

CD0017A02

NEW WATER METER

Cook Fish Hatchery Rd

EWING

Home Office
3441 E. Harbour Drive, Phoenix, AZ 85034
602.437.9530
EwingIrrigation.com | EwingLandscapeMaterials.com

INVOICE 25049708

CASH ACCT # 144533

154 Ewing Grants Pass
906 SW 6th St
Grants Pass OR 97526
PHN 5414795524 FAX 5414762136

ORDER # 19121676
PAGE 1 of 1
ORDERED 3/3/2025
TERMS COD

SOLD TO: # 144533
ESLAMA YARD MAINTENANCE
1121 NE D ST
GRANTS PASS OR 97526-2315
PH 5414412327

SHIP TO:
ESLAMA YARD MAINTENANCE
1121 NE D Street
GRANTS PASS OR 97526
PH 5414412327

DELIVERY INSTRUCTIONS:

PO# BUYER: HIGINIOLUIS PH: 5414791645
P21 JOB: EIP#: BY: BILLY R QUOTE#: POS-P-01
EWING JOB: JOB REF: Parts

QTY ORDER	QTY SHIP	QTY B/O	ITEM DESCRIPTION	NET	EXTENDED	LINE#
1.00	1.00	0.00	48803200 WM-200-10-RS 2IN WATERMETER	655.8800	655.88	1
1.00	1.00	0.00	66084000 2IN ALGAE QUEEN SUCTION FILTER	283.6000	283.60	2
1.00	1.00	0.00	21018020 2 BRASS NO-LEAD CHECK VALVE	41.2500	41.25	3

Card:	VISA	**App Label:**	VISA DEBIT	**TVR:**	0000000000
Account Number:	**********4023	**Merchant Id:**	XX2712	**IAD:**	06011203A00000
Reference Number:	19121676	**Entry Method:**	Chip Tapped	**TSI:**	
Authorization Number:	538244	**Mode:**	Issuer	**ARC:**	00
Authorization Amount:	981.70	**Currency:**	USD	**AC:**	C21EAB52C1F2262A
Amount Applied To Invoice:	981.70	**AID:**	A0000000031010	**CVM:**	

x H. E

SUB-TOTAL:	980.73
TOTAL FREIGHT:	0.97
TAX:	0.00
FP CREDIT CARD:	981.70
UNAPPLIED PAYMENT:	0
AMOUNT DUE:	0.00

FILLED BY
DATE

SIGNATURE
Acknowledgement of receipt of goods listed above.
PRINT NAME

DELIVERED BY
DATE

NO CASH REFUNDS. Sale subject to terms and conditions on reverse
No recommendations have been made by, or provided to, the seller concerning the use of the pesticide covered by this invoice.
PROPOSITION 65 WARNING: Some of the products on your order may expose you to chemicals that are known to the State of Californiato cause cancer, birth defects and reproductive harm.Learn more at https://www.P65warnings.ca.gov/

REMIT TO:
Ewing Irrigation Products Inc.
P.O. Box 208728
Dallas, TX 75320-8728

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NETAFIM™

WATER METERS

Most Accurate in the Industry

APPLICATIONS

- Use smaller sized meters as sub-meter for residential or commercial applications
- Communicate with irrigation controllers and measures water usage for effective water management

SPECIFICATIONS

- Sizes: ¾" to 6"
- Maximum working pressure:
  ¾", 1" and 1 ½": 140 psi
  2" to 6": 230 psi
- Maximum water liquid temperature:
  ¾", 1" and 1 ½": 122° F
  2": 131° F
  3" to 6": 140° F
- Available bodies: metal (corrosion proof copper alloy) or composite (plastic)
- Available with Reed Switch, Photo Diode or Electronic Digital registers
- Installation of a continuous acting air vent before the water meter is highly recommended for accurate flow readings

FEATURES & BENEFITS

ONLY ONE MOVING PART - THE IMPELLER - IN CONTACT WITH THE WATER

For minimum wear and utmost reliability.

MAGNETIC DRIVEN SEALED REGISTERS ARE STAINLESS STEEL/COMPOSITE ENCAPSULATED

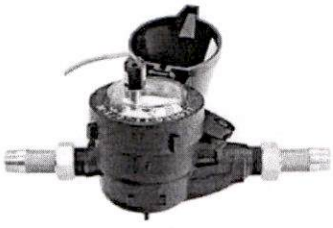
Guaranteed against fogging due to moisture.

ACCURATE OVER A WIDE RANGE OF FLOWS

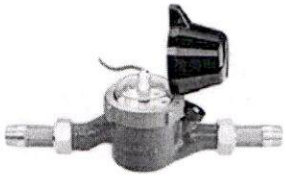
For flexible and efficient water management.

INDUSTRY'S LONGEST WARRANTY

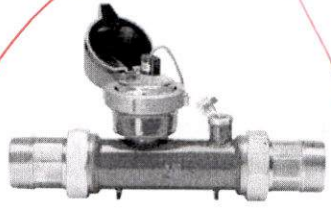
Three years on the metering components (register and metering assembly) and five years on the meter body.



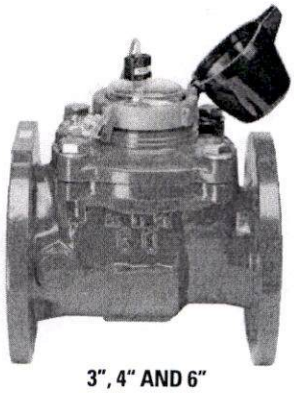
¾" AND 1"
(PLASTIC BODY)



¾", 1" AND 1 ½"
(METAL BODY)



2"

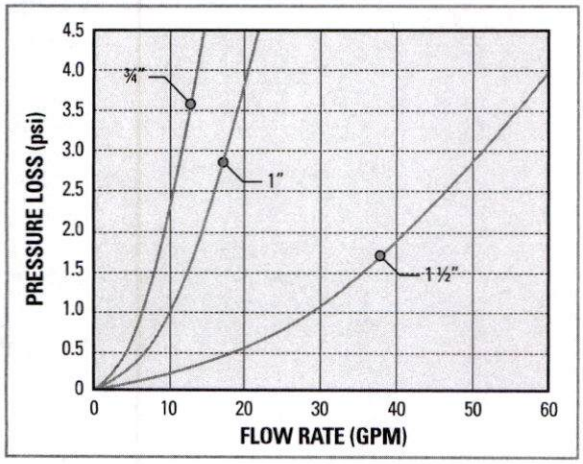


3", 4" AND 6"

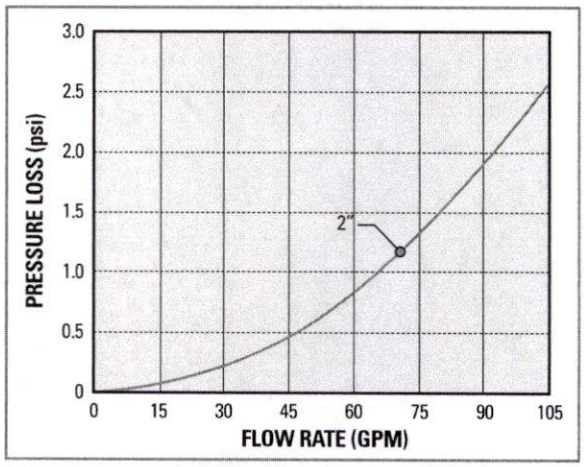
PERFORMANCE DATA (GPM)

SIZE	LOWEST FLOW WITHIN ± 5% ACCURACY	LOWEST FLOW WITHIN ± 2% ACCURACY	NOMINAL FLOW WITHIN ± 2% ACCURACY	MAXIMUM FLOW WITHIN ± 2% ACCURACY
¾"	0.2	0.9	11	14
1"	0.3	1.2	15.4	20
1 ½"	0.9	3.5	44	55
2"	2.0	8.8	88	110
3"	2.0	4	528	660
4"	4.0	6	1,013	1,266
6"	11	15	1,145	1,431

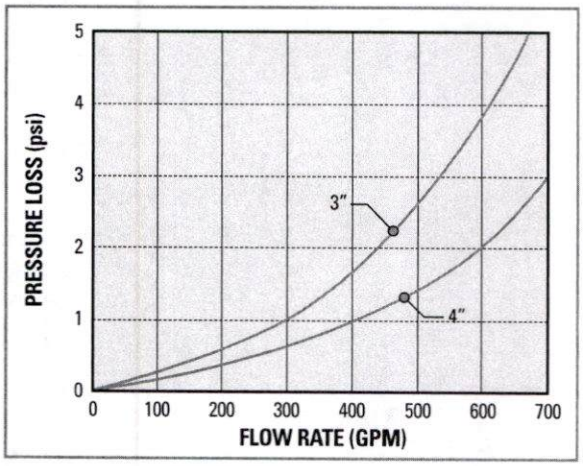
FLOW RATE VS. PRESSURE LOSS



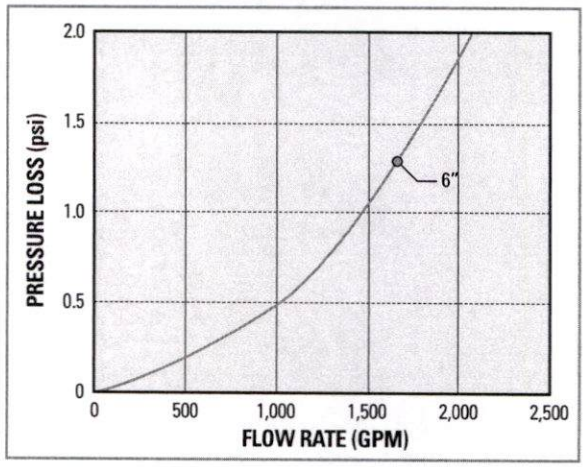
FLOW RATE VS. PRESSURE LOSS

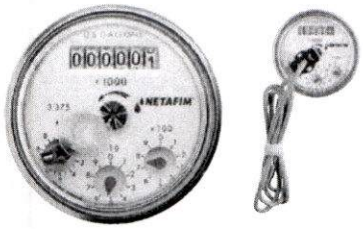


FLOW RATE VS. PRESSURE LOSS

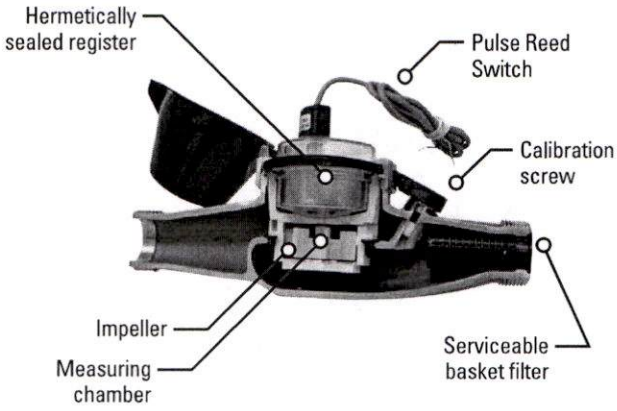


FLOW RATE VS. PRESSURE LOSS





REED SWITCH REGISTER (RS)
The reed switch register is a dry contact or simple switch closure for communicating with control and monitoring equipment. Flows are totaled in U.S. Gallons based on the multiplication factors indicated on the dial face.



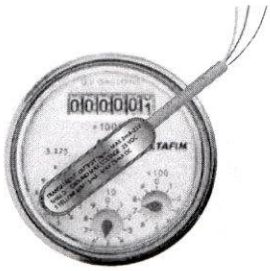


PHOTO DIODE REGISTER (PD)
A photo coupler sensor that provides pulse output for communicating with control and monitoring equipment. Flows are totaled in U.S. Gallons based on the multiplication factors indicated on the dial face.

DIGITAL (ER) REGISTER
Combines standard digital register features with dry pulse output for communicating with control and monitoring equipment. Rate of flow and volume readings in U.S. Gallons are clearly displayed on the LCD display.

ORDERING INFORMATION

BODY MATERIAL	SIZE	REGISTER OUTPUT TYPE	GALLONS PER PULSE	MODEL NUMBER
PLASTIC	¾"	RS	0.1	WM-075-0.1-RS-P
PLASTIC	¾"	RS	1.0	WM-075-1.0-RS-P
PLASTIC	1"	RS	1.0	WM-100-1.0-RS-P
PLASTIC	¾"	PD	.0015	WM-075-.0015-PD-P
PLASTIC	1"	PD	.0021	WM-100-.0021-PD-P
PLASTIC	¾"	ER	0.1	WM-075-0.1-ER-P
PLASTIC	1"	ER	0.1	WM-100-0.1-ER-P
METAL	¾"	RS	0.1	WM-075-0.1-RS-M
METAL	¾"	RS	1.0	WM-075-1.0-RS-M
METAL	1"	RS	1.0	WM-100-1.0-RS-M
METAL	1½"	RS	1.0	WM-150-1.0-RS
METAL	2"	RS	10	WM-200-10-RS
METAL	3"	RS	10	WMW-300-10-RS
METAL	4"	RS	10	WMW-400-10-RS
METAL	6"	RS	100	WMW-600-100-RS
METAL	¾"	PD	.0015	WM-075-.0015-PD-M
METAL	1"	PD	.0021	WM-100-.0021-PD-M
METAL	1½"	PD	.0074	WM-150-.0074-PD
METAL	2"	PD	1.0	WM-200-1.0-PD
METAL	¾"	ER	0.1	WM-075-0.1-ER-M
METAL	1"	ER	0.1	WM-100-0.1-ER-M
METAL	1½"	ER	0.1	WM-150-0.1-ER
METAL	2"	ER	1.0	WM-200-1.0-ER
METAL	3"	ER	1.0	WMW-300-1.0-ER
METAL	4"	ER	1.0	WMW-400-1.0-ER
METAL	6"	ER	10	WMW-600-10-ER

STRAIGHT PIPE INSTALLATION
REQUIRED FOR WATER METERS 2" AND LARGER

When water flows through a pipe, any transition through a fitting, elbow, or change in pipe size causes turbulence in the water. In order to eliminate water turbulence, some water meters require straight pipe before and after the water meter. Straight pipe installation refers to the length of straight pipe needed before (upstream of the water meter) and after (downstream of the water meter).

The ¾", 1" and 1 ½" water meters do not require straight pipe installation, but a 5 x diameter before and 2 x diameter straight pipe installation after the meter is recommended. **(Diameter = Meter Size)**

The 2" water meter requires straight pipe installation of 10 x diameter before and 5 x diameter straight pipe installation after the meter.

The 3", 4" and 6" water meters require straight pipe installation of 5 x diameter before and 2 x diameter straight pipe installation after the meter.

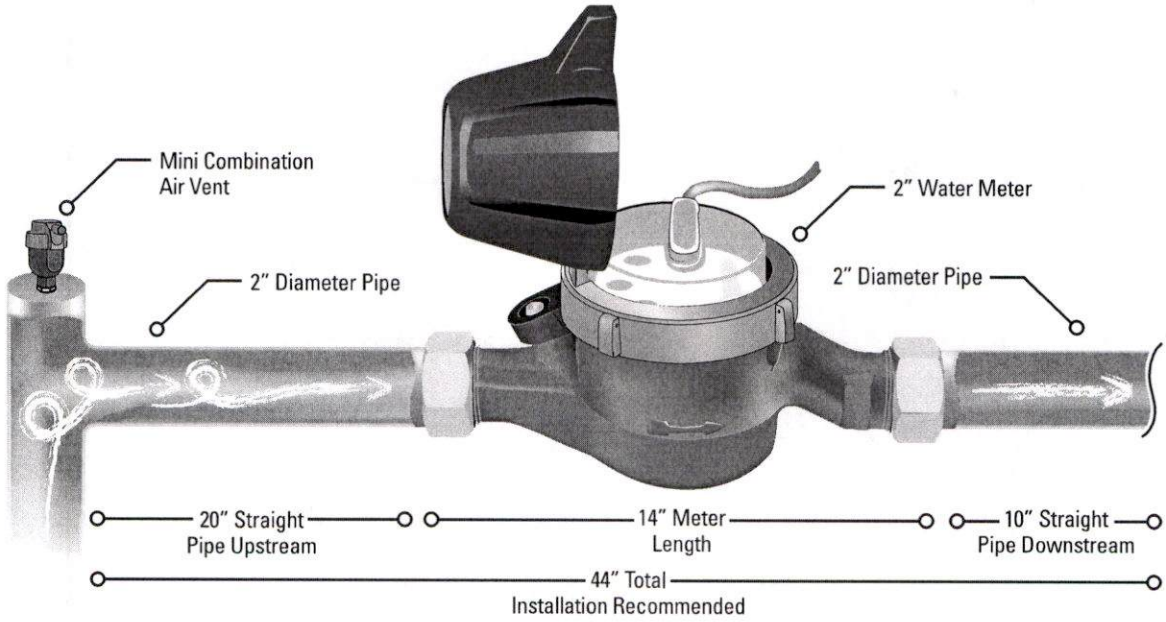
Continuous acting air vents are used to remove air from the system for accurate metering. Proper air vent selection and placement within the system is critical.

CONFIGURING STRAIGHT PIPE INSTALLATION EXAMPLE BELOW:

Water Meter:	2"
Upstream:	10 x 2" diameter meter = 20" (10 x D) 20" of straight pipe upstream of the water meter
Downstream:	5 x 2" diameter meter = 10" (5 x D) 10" of straight pipe downstream of the water meter
Meter Length:	14"
Total:	44" total installation recommended

STRAIGHT PIPE INSTALLATION REQUIREMENTS
(10 X D AND 5 X D - 2" SIZE)
(5 X D AND 2 X D - 3", 4" AND 6" SIZE)

SIZE	UPSTREAM DISTANCE	DOWNSTREAM DISTANCE	METER LENGTH	TOTAL REQUIREMENT
2"	20"	10"	14"	44"
3"	15"	6"	9"	30"
4"	20"	8"	10"	38"
6"	30"	12"	12"	54"



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NETAFIM USA
(888) 638 2346
www.netafimusa.com

Hunter® Built on Innovation®

ICC2

IRRIGATION ZONES CONTROLLER

This flexible control system can run any combination of conventional, EZDS two-wire, or Wireless Valve Link outputs with built-in flow monitoring and convenient, online control with Centralus™ Software.

KEY BENEFITS

- 4 independent irrigation programs (8 start times each) allow for customized scheduling
- 2 sensor inputs available for dedicated flow sensor (HFS) and weather sensor (Clik or Solar Sync) connections
- Backward compatibility to original ICC Controllers allows for quick updates to older systems
- Forward compatibility with HCC Controllers and Hydrawise® Software using convenient upgrade kit
- 12-hour maximum station run times provide flexibility for low-flow zones
- Any 2 programs can operate simultaneously, providing more efficient watering
- 1 P/MV output for pump start relay and master valve activation
- Compatible with EZ Decoder System two-wire and Wireless Valve Link outputs in the same installation

ELECTRICAL SPECIFICATIONS

- Transformer input: 120/230 VAC
- Transformer output (24 VAC): 1.4 A
- Station output (24 VAC): 0.56 A
- P/MV output (24 VAC): 0.56 A
- Approvals: Wall Mounts IP55, Plastic Pedestal IP24, UL, cUL, FCC, CE, UKCA, RCM, ISED
- Warranty period: 5 years

USER-INSTALLED OPTIONS

- Compatible with Hunter Flow-Sync® Sensor for standalone flow monitoring connections

https://www.hunterirrigation.com/irrigation-product/controllers/icc2
110425

Hunter® Built on Innovation®

PGP-ADJ

LAWN SPRINKLER

As Hunter's original rotor, the PGP® delivers unsurpassed reliability, durability, versatility, and value.

KEY BENEFITS

- Three types of nozzles available for various landscapes: standard red, standard blue, gray low-angle
- Adjustable arc from 40° to 360° to keep water in the appropriate areas
- Factory-installed rubber cover for safety
- Through-the-top arc adjustment for easy installation
- QuickCheck™ Arc Mechanism for fast arc adjustment

Operating Specifications

- Nozzle choices: 27
- Radius: 22' to 52'
- Flow: 0.5 to 14.1 GPM
- Recommended pressure range: 25 to 70 PSI
- Operating pressure range: 20 to 100 PSI
- Precipitation rate: 0.4 in/hr approximately
- Nozzle trajectory: standard = 25°, low-angle = 13°
- Warranty period: 2 years

Factory-Installed Options

- Red 5–8 nozzle; Blue #1.5–4.0

User-Installed Options

- Drain Check Valve (up to 3' of elevation) P/N: 142300SP

PGP BLUE NOZZLE PERFORMANCE DATA

Nozzle	Pressure	Radius	Flow	Precip in/hr	
	PSI	ft	GPM	■	▲
1.5 • Blue	25	29	1.2	0.27	0.32
	35	31	1.4	0.28	0.32
	45	**31**	**1.5**	**0.30**	**0.35**
	55	32	1.8	0.34	0.39
	65	32	1.9	0.36	0.41
2.0 • Blue	25	33	1.4	0.25	0.29
	35	33	1.7	0.30	0.35
	45	**34**	**2.0**	**0.33**	**0.38**
	55	34	2.1	0.35	0.40
	65	34	2.3	0.38	0.44
2.5 • Blue	25	33	1.7	0.30	0.35
	35	35	2.1	0.33	0.38
	45	**35**	**2.5**	**0.39**	**0.45**
	55	35	2.6	0.41	0.47
	65	35	2.9	0.46	0.53
3.0 • Blue	25	35	2.2	0.35	0.40
	35	36	2.7	0.40	0.46
	45	**38**	**3.0**	**0.40**	**0.46**
	55	39	3.4	0.43	0.50
	65	39	3.7	0.47	0.54
4.0 • Blue	25	37	3.0	0.42	0.49
	35	39	3.5	0.44	0.51
	45	**40**	**4.0**	**0.48**	**0.56**
	55	41	4.5	0.52	0.60
	65	41	4.8	0.55	0.63
5.0 • Blue	25	37	3.7	0.52	0.60
	35	39	4.5	0.57	0.66
	45	**42**	**5.0**	**0.55**	**0.63**
	55	42	5.7	0.62	0.72
	65	42	6.2	0.68	0.78
6.0 • Blue	25	38	4.3	0.57	0.66
	35	40	5.6	0.67	0.78
	45	**43**	**6.0**	**0.62**	**0.72**
	55	44	6.7	0.67	0.77
	65	44	7.3	0.73	0.84
8.0 • Blue	25	37	6.0	0.84	0.97
	35	41	7.0	0.80	0.93
	45	**44**	**8.0**	**0.80**	**0.92**
	55	46	9.0	0.82	0.95
	65	46	9.8	0.89	1.03

Hunter Built on Innovation

Pro-Spray®

BUSHES/TREES SPRINCKLER

Meet the strongest, most versatile spray body in the industry.

KEY BENEFITS

- Industry's strongest spray body for years of reliable performance
- Co-molded wiper seal made from chemical- and chlorine-resistant materials
- Innovative seal design prevents cap-to-body leaks, even with a loose cap
- Heavy-duty spring for consistent riser retraction
- Check valve option eliminates low-head drainage
- Directional flush plug design for cleaner installation
- Interchangeable components for easier servicing, retrofits, and upgrades
- Compatible with all female-threaded nozzles

Operating Specifications

- Operational pressure range: 15 to 100 PSI
- Warranty period: 5 years

Factory-Installed Options

- Check valve available for 4", 6", and 12" models (up to 10' of elevation)
- Reclaimed water ID cap

User-Installed Options

- Drain Check Valve (up to 10' of elevation) P/N: 437400SP
- Reclaimed water ID cap P/N: 458520SP
- Snap-on reclaimed cover P/N: PROS-RC-CAP-SP
- Shutoff cap P/N: 213600SP
- Shutoff nozzle P/N: 916400SP

https://www.hunterirrigation.com/irrigation-product/spray-bodies/pro-sprayr
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