Checklist for Claims of Beneficial Use Received at CSG Counter

Application	#:	WRD Review	er:	
Transfer #:				
Date Recei	ved:			
CWRE Nan	ne:			
Priority Dat	e (s):			
Fees Required	l:			
□ YES NO □	A fee of \$230 must accompany th 1987, or later.	is form for <u>permits</u>	with priority dates of	July 9,
□ YES NO □	A fee of \$230 must accompany th with a priority date of July 9, 198' Example – A transfer involves has a priority date of July 9, 19	7, or later. 5 rights and one of	the rights	Fill in App
Map Review:				Number
☐ Application & pe☐ Disclaimer (OAR☐ North arrow (OA☐ CWRE stamp and☐ Appropriate scale of the cou	film (OAR 690-014-0170(1) & 310-0050(1) rmit #; or transfer # (OAR 690-014-0100(1) 690-014-0170(5)) R 690-310-0050(2)(c)) I signature (OAR 690-014 & 310-0050) (1" = 1320', 1" = 400', or the original full-s nty assessor map) (014 & 310) section, and tax lot numbers (OAR 690-310)	ize scale	MONEY SLIP DATE: RECEIPT #: APPLICA APPLICA CASH CHECK # OTHER (DENTIFY) CASH CHECK # OTHER	ER
Report Review	v :		0201 SURFACE WATER \$ 020 0203 GROUND WATER \$ 020 0205 TRANSFER \$	
☐ Application & pe	ed (OAR 690-014)))	WELL CONSTRUCTION 218 WELL DRILL CONSTRUCTION 219 WELL DRILL CONSTRUCTION 210 OTHER (IDENTIFY) 0007 THEASURY 0467 HYDROCLECTRIC 0223 POWER LICENSE FEE (IPWWRD) HYDRO LICENSE FEE (IPWWRD) HYDRO LICENSE FEE (IPWWRD) HYDRO LICENSE FEE (IPWWRD) SPECIAL INSTRUCTIONS:	\$ \$ 200.00
☐ CWRE stamp and	l signature (OAR 690-014-0100) l permittee of transfer holder (OAR 690-014	l-0100)	☐ RETURN TO APPLICANT LETTER ATTA	CHED
	quired (Priority Date prior to December 20, ed (Priority Date on or after December 20, 1 tted		pump test flyer w/acknow	ledgment letter

CLAIM OF BENEFICIAL USE for Transfer New or Additional POD Only



OREGON Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1266

(503) 986-0900

www.oregon.gov/OWRD

RECEIVED

SFP 2 2 2021

OWRD

Not Reg. → A fee of \$230 must accompany this form for any <u>Transfer final orders</u> including a water right with a priority date of July 9, 1987, or later.

Example - A transfer involves 5 rights and one of the rights

has a priority date of July 9, 1987, or later, the fee is required.

A separate form shall be completed for each transfer.

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.

A claim of beneficial use includes both this report and a map. If the map is being mailed separately from this form, please include a note with this form indicating such.

If you have questions regarding the completion of this form, please call 503-979-9103.

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

SECTION 1

GENERAL INFORMATION

Type of Authorized Change

This Claim is being submitted for a transfer where the only authorized change was a change in either point(s) of diversion or additional point(s) of diversion, or a combination of both. If additional changes were authorized, you will need to select a different form.

4	p- 1	1	1	C			
1.	1-1	0	110	TOI	rm.	21	IOn
tille 8		-	2 8 8	101	2 2 4 4	αL	1011

APPLICATION #

T-12477

OWRD

2. Property Owner (current owner information)

Applicant/Business Name Steven M. Self		PHONE NO. A 503-706-4415		ADDITIONAL CONTACT NO.	
ADDRESS 226 N. Page St. (Prope	erty Address)				
CITY	STATE	ZIP	E-MAIL		
Portland	OR	97227	tosmself@g	mail.com	

If the current property owner is not the transfer holder of record, it is recommended that an assignment be filed with the Department. <u>Each</u> transfer holder of record must sign this form.

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

Transfer Holder of Reco Steven M. Self	DRD		
Address 226 N. Page Street			
CITY Portland	STATE OR	ZIP 97227	

4. Date of Site Inspection:

July 16, 2021/Sept.7,2021

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

NAME	DATE	ASSOCIATION	WITH THE PROJECT
Tyler Fields	7/16/21-9/7/21	Project Manager	

6. County:

Jackson

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

OWNER OF RECORD		21.0 337.230(3)).	
Steven M. Self			
ADDRESS 226 N. Page St.			
CITY	STATE	ZIP	
Portland	OR	97227	

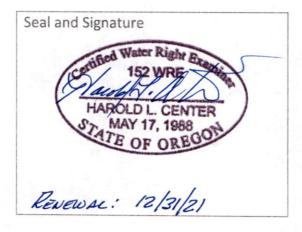
Add additional tables for owners of record as needed

OWRD

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.



CWRE NAME Harold L. Center		PHONE NO 541-535-		ADDITIONAL CONTACT No.
ADDRESS 2604 David Lane				
CITY Medford	STATE OR	ZIP 97504	E-MAIL center107	1@gmail.com

Transfer Holder of Record Signature or Acknowledgement

<u>Each</u> transfer 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
* My	Steven M. Self	Onnes	9/15/21

SEP 2 2 2021 OWRD

SECTION 3 CLAIM DESCRIPTION

Note: The Claim <u>only</u> needs to describe the new or additional point(s) of diversion. This Claim does not need to provide information for the original point(s) of diversion unless the original point of diversion is either a new or additional point of diversion on another right involved in this transfer.

1. New or additional point of diversion name or number:

P.O.D. No. 1	Ruch Gulch, Thompson Ck. Sturgis/Carberry/O'Brian Ck., Big Miller Lake Res.
(POD) NAME OR NUMBER (CORRESPOND TO MAF)	
POINT OF DIVERSION	Source

2. Variations:

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

(e.g. "The order allowed three new/additional points of diversion. The water user only developed one of the points.")

3. Claim Summary:

NEW OR ADDITIONAL POD NAME OR #	MAXIMUM RATE AUTHORIZED IN ORDER	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED
P.O.D. No. 1	0.16 CFS/71.81 GPM		Not able to measure due to drought.

RECEIVED

SEP 2 2 2021

SECTION 4

SYSTEM DESCRIPTION

OWRD

Are there multiple new or additional Points of Diversion (POD)s?

YES 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):

P.O.D. #1

A. POD System Information

Provide the following information concerning the point of diversion. Information provided must describe the equipment used to appropriate water from the point of diversion.

1. Pump Information

Munro	LP 300 B	34720J2	SUBMERSIBLE) Centrifugal	2"	SIZE
MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR	INTAKE SIZE	DISCHARGE

2. Motor Information

MANUFACTUR	ER de la	Horsepower	PART SEASON NOTES
Munro	3 HP		

3. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP TO	TOTAL PUMP
			PLACE OF USE	OUTPUT (IN CFS)
3.0 HP	No Gage	5'	108	0.178

4. Provide pump calculations:

$$Q = 3 \times 6.61 = 0.176 \text{ CFS } (78.76 \text{ gpm})$$

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
001.103 *	001.104	4'56"	0.176

*Meter Reading in Acre Feet

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

B. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the diversion involve a gravity flow pipe?

YES NO

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

SECTION 4

SYSTEM DESCRIPTION

OWRD

Are there multiple new or additional Points of Diversion (POD)s?

YES 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):

Bulge	

A. POD System Information

Provide the following information concerning the point of diversion. Information provided must describe the equipment used to appropriate water from the point of diversion.

1. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR	INTAKE SIZE	DISCHARGE
			SUBMERSIBLE)		SIZE
Hallmark Ind.	MA0414	Not Available	Submersible	1.25"	1.25"

2. Motor Information

MANUFACTURER	Horsepower	
Hallmark Industries	1.0	

3. Theoretical Pump Capacity

<u> </u>	40	-0-	10	(IN CFS)
			PLACE OF USE	Оитрит
HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP TO	TOTAL PUMP

4. Provide pump calculations:

$Q = 1 \times 7.04 = 10+63.5$	7.04 = 0.096' 73.5	(43 gpm) * Assume PSI for Drip @ 25 PSI ** NOTE – Irrigation is also by gravit	ty from Bulge.

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

INITIAL METER READING	ENDING METER READING	DURATION OF TIME	TOTAL PUMP OUTPUT
, = = 1		OBSERVED	(IN CFS)
N/A See 5-A	NA	N/A	N/A

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

SECTION 5 CONDITIONS

OWRD

All conditions contained in the transfer final order, or any extension final order shall be addressed.

Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Describe how the water user has complied with each of the development timelines established in the transfer final order and any extensions of time issued for the transfer:

	DATE FROM TRANSFER	DATE THE NEW AND/OR ADDITIONA USE	L POD(s) WERE READY FOR
		*THIS DATE MUST FALL BETWEEN THE	
ISSUANCE DATE	Sept. 21, 2017		
COMPLETENESS DATE FROM ORDER (C)	Oct. 1, 2018	See No. 2 – Extension of Time to	Oct. 1, 2021

^{*} MUST BE WITHIN PERIOD BETWEEN TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETE THE CHANGE

2. Is there an extension final order(s)?

If "NO", you may delete the following table.

YES NO

If for a transfer extension order, provide the following information:

Volume	PAGE		DATE EXTENDED TO
114	129	Oct. 1, 20	21

- 3. Measurement Conditions:
- a. Does the transfer final order, or any extension final order require the installation of a meter or other approved measuring device?

 YES NO

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 NO

c. Meter Information

POD NAME OR#	MANUFACTURER	SERIAL#	(WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
1	NETAFIM	21-50063214	Working	001.003	001.004

4. Recording and reporting conditions

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

5. Fish Screening

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

YES NO

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 NO

c. When was the fish screening installed?

DATE	By Whom	
6/2021	Landowner – Steve Self	

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.

- d. If the diversion involves a pump <u>and</u> the total diversion rate of all rights at the point of diversion is less than 225 gpm (0.5 cfs) and the permit was issued prior to February 1, 2011:
 - Has the self-certification form previously been submitted to the Department? NA YES 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** <u>or</u> 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 YES NO

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?

YES NO

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

7. Other conditions required by the transfer final order or extension final order:

a. Was the water user required to restore the riparian area if it was disturbed?
b. Was a fishway required?
c. Other conditions?
YES NO

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

NONE		

RECEIVED

SEP 2 2 2021

SECTION 6

ATTACHMENTS

OWRD

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

ATTACHMENT NAME	DESCRIPTION	
ODFW	7/15/21 Letter Approving Fish Screening	
Pump Specifications	MUNRO LP Series – LP 300B	
Hallmark IndRapidflo	Submersible MA0414X	
Flow Meter	NETAFIM Water Flow Specifications – WRM	Meter
Rivulis Drip Line	Pressure Compensating Drip Line	
Naandanjain Sprinklers	Model 280 Overhead Sprinklers	

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 polyester 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.

For the purpose of this Claim, the map identifying the location of the place of use does not require a new survey. The location of the place of use identified on the Claim map should be based on the original right of record at the time the transfer final order was issued. In transfers approved for additional points of diversion, the original points must be identified the map based on the original right of record at the time the transfer final order was issued.

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.

Original place of use mapped with Trimble Pro X-R GPS, Supplemented with conventional survey methods for tie to PLSS Corner. Point of Diversion and place of use verified with Trimble GED-7X.

Area Irrigated Using: 16,200' + Feet of Rivulis Pressure compensating Drip Line installed for Primary Irrigation. Drip Lines are 0.17 gph on 12" spacing. 2 Naandanjain Model 280/280PG Overhead Portable Sprinklers are utilized to irrigate small pasture (0.8 Acre) and other misc. areas as needed.

Area irrigated direct from P.O.D. or into "Bulge" pond like storage at top of irrigated area. Water from bulge can either be pumped from the bulge or by gravity flow or both as needed.

RECEIVED

SEP 2 2 2021

OWRD

D5000 PC / D5000 PCAS

TRANSTER
T-12477
ATTACHMENTS
TO COBU
Report/claim

/OLUTION IN PRESSURE ING DRIP TECHNOLOGY

SEP 2 2 2021
OWRD



D5000 PC / PCAS

Pressure Compensating Drip Line (Thin To Heavy Wall)

Drip Line	D5000 PC
Mechanism	Silicone injected diaphragm with self-cleaning feature
Pressure compensating	
Anti-Siphon	D5000 PCAS Dripper (AS - Anti-Siphon)
Flow Rates	0.17)0.26, 0.40, 0.53, 0.92 gph
Standard Dripper Spacings	Thin Wall-8(12)18, 24 inch, Heavy Wall - 24, 30, 36, 42, 48
Nominal Drip Line Diameter	Thin and Medium Wall- 5/8", 7/8", 1" Heavy wall - 16, 18, 20 mm
Drip Line Wall Thickness	15, 25, 45, 47 mil
Outlet	Slit (15 mil wall thickness), hole (all other configurations)
Operating Pressure Range	7 to 51 psi (according to wall thickness)
Recommended Filtration	≤0.26 gph - 150 mesh, >0.27 gph - 120 mesh









EVOLUTION: ADVANCEMENT OF PC DRIP TECHNOLOGY

D5000 PC Drip Line represents the most significant advancement in PC drip technology in the past decade. After many years of research, the D5000 PC Drip Line was launched and set a new standard in pressure compensating drip line technology.

On multiple levels, the D5000 PC Drip Line has been engineered to outperform all pressure compensating drip line on the market. Starting from the manufacturing process, where state-of-the-art quality controls are used to continually output high quality product, to the uniquely designed dripper that provides maximum resistance to clogging. All designed to provide growers with the best tool available to maximize ROI in the field.

Multi-Layer design • Self-cleaning mechanism • Optimized components

Traditional Drippers



Small inle

Narrow & short labyrinth Small outlet area

Modular-linear layout, reduced filtration area Increased clogging risk, small outlet area

Maximized Design



Multi-zone inlet filters



Large labyrinth

Large Outlet Are

EVOLUTION: TOTAL DRIP DESIGN



Forty Independent Inlet Filters

Inlet filters are your first layer of protection against foreign particles. The D5000 PC features a unique multi-zone inlet area with 40 inlet filters to provide maximum protection against clogging and almost 300% more functional filtration area compared to main competitive product in the market.



Extra Wide Flow Labyrinth

Advanced engineering of the D5000 PC labyrinth provides the ultimate balance of incrementally reducing pressure while also forming high turbulence in the dripper to help ensure solids stay in suspension. Because the D5000 PC features one of the largest flow paths available it is the most plug resistent flow path in the industry.



Full Size Outlet Pool

Dirt ingestion is a risk for all drip irrigation systems. The unique long outlet pool of the D5000 PC in conjunction with the raised wall design provides the maximum distance between the emitter outlet and the tube hole to help prevent dirt ingestion or suck-back. The full size pool also allows slit outlet in 15 mil configurations.



OWRD

The next evolution in pressure compensating drip technology.



EVOLUTION: PRECISION MANUFACTURING & QUALITY

IN-LINE MONITORING



A photo of every inserted dripper is taken (up to 7 per second) to ensure correct alignment in the drip line during production. **ROLL TESTING**



Before dispatch, the D5000 PC must meet a number of stringent tests including flow test, tube analysis, weld strength and tensile strength tests.

AUTOMATED ASSEMBLY



Every dripper manufactured goes through a multi-stage automated testing process to ensure correct assembly.

APPLICATIONS

- · Subsurface or surface applications
- · Agriculture, greenhouse and nursery applications
- Multi-Season use
- · Ideal for undulating terrains

SEP 2 2 2021

OWRD



PRODUCT FEATURES AND BENEFITS

- Pressure compensating for precise and uniform flow rates along the entire length of the lateral and in undulating terrain. Allows for longer run lengths (up to 50% longer when compared to non-PC drip lines)
- Anti-Siphon mechanism prevents a vacuum from forming inside the lateral upon water shut down to resist soil
 ingestion (AS models only)
- Wide range of pressure regulation from 7 to 51 psi maintains a uniform flow rate regardless of the water pressure to
 optimize irrigation and maximize crop yields
- Wide range of flow rates, diameters and spacings to match the soil infiltration rate, optimize irrigation and deliver the precise amount of water and nutrients to the root zone to maximize crop yields
- · Continuously self-flushing mechanism reduces clogging



D5000 PC / PCAS DRIP LINES

Thin/Medium Wall Drip Lines

Thick Wall Drip Lines

18 mm

Drip Line Configuration Options: D5000 PC / PCAS

0.646

0.662

0.602

0.874

0.874

0.874

0.874

0.693

0.26

0.17

0.17

0.26

0.26

0.26, 0.53, 0.92

0.40, 0.53, 0.92

0.40, 0.53, 0.92

8, 12, 18, 24

8, 12, 18, 24

8, 12, 18, 24

8, 12, 18, 24

8, 12, 18, 24

8, 12, 18, 24

24, 30, 36, 42, 48

24, 30, 36, 42, 48

Slit

2625

2625

2625

2625

2625

2625

1320

RECEIVED

SEP 2 2 2021

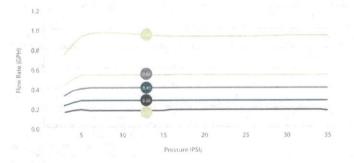
0		Sec.	2
() N	ΛI	u	1
	W		Ł

Packaging Information: D5000 PC / PCAS

Diameter	NeW	Roll Length	Core Length	Disc Dia.	Roll Weight	Rolls per Pallet	Pallet Weight
	mil	R	in	in	fbs		lbs
Thin/Medium Wa	ll (packaged w	ith core and disks					
5/8"	15	2625	9.8	21.3	59	16	944
5/8"	25	2625	12.2	22.4	55	20	1100
7/8"	15	2625	12.2	22.4	66	20	1320
7/8"	25	2625	12,2	22,4	50	20	1000
Heavy Wall							
16 mm	45	1320	n/a	n/a	43	20	860
18 mm	45	1150	n/a	n/s	42	20	840
20 mm	47	1000	n/a	n/a	42	20	840



D5000 PC / PCAS Flow vs Pressure



Technical/Design Information: D5000 PC / PCAS

Diameter	Wall	Flov/Rate	Minimum Pressure for Regulation	Maximum Pressure	Drip Constant	Drip Exponent	
	mil	gph	psi	psi	K	X	
Thirt/Medium Wall Dri	p Line						
5/8"	15	0.17	7.1	31	6.17	0	0.50
5/3"	15	0.26	7.1	31	0.26	0	0.50
5/8"	25	0.17	7,1	36	0.17	0	0.52
5/8°	25	0.26	7.1	36	0.26	g	0.52
7/8"	15	0.17	7.1	26	0.17	0	9.13
7/8"	15	0.26	7,1	26	0.26	0	0.13
7/8"	25	0.17	7.1	36	0.17	0	0.13
7/8"	25	0.26	71	36	0.26	0	0.13
Thick Wall Drip Line							
16 mm	45	0.25	7,1	51	0.26	0	0.80
16 mm	45	0.53	7.1	51	0.53	0	0.80
16 mm	45	0.92	71	51	0.53	0	0.80
18 mm	45	0.40	7.1	51	G.40	0	0.52
18 mm	45	0,53	7.1	51	0.53	0	0.52
18 mm	45	0.92	7.1	51	0.53	0	0.52
20 mm	47	0.40	7.1	51	0.40	0	0.33
20 mm	47	0.53	7.1	51	0.53	0	0.33
20 mm	47	0.92	7.1	51	0.53	0	0.33

Length of Run Data: D5000 PC / PCAS (0% Slope)

SEP 2 2 2021

Nominal	Wall	Dripper			Spacing Betwe	en Drippers (inch)		ON
Diameter	Thickness	(Flow Rate)	8	12	16	20	24	30
inch or mm	mil	gph	ft	ft	ft	ft	ft	ft
nin/Medium Wall (Diameter In Inches)							
5/8"	15	0.17	732	1024	1286	1532	1759	2073
5/8"	15	0.26	551	774	974	1158	1332	1572
5/8"	15	0.40	423	594	748	892	1024	1211
5/8"	15	0.53	351	492	623	741	850	1004
5/8"	15	0.92	243	341	433	515	594	699
5/8"	25	0.17	719	1004	1266	1506	1726	2034
5/8"	25	0.26	538	755	951	1132	1299	1532
5/8"	25	0.40	413	581	732	873	1001	1181
5/8"	25	0.53	341	482	607	725	830	981
5/8"	25	0.92	239	336	424	505	581	686
7/8"	15	0.17	1362	1844	2270	2657	3015	3510
7/8"	15	0.26	1037	1404	1729	2024	2297	2677
7/8"	15	0,40	797	1083	1332	1562	1772	2064
7/8"	15	0.53	663	899	1109	1299	1473	1719
7/8"	15	0.92	459	623	768	902	1027	1198
7/8"	25	0.17	1585	2152	2651	3104	3520	4101
7/8"	25	0.26	1194	1621	1998	2343	2657	3097
7/8"	25	0.40	919	1247	1539	1804	2051	2388
7/8"	25	0.53	761	1037	1280	1499	1706	1988
7/8"	25	0.92	531	725	899	1053	1198	1398
1"	15	0.17	1522	2037	2493	2907	3287	3819
1"	15	0.26	1152	1545	1890	2205	2497	2900
1"	15	0.40	886	1191	1457	1703	1926	2238
1"	15	0.53	738	991	1214	1414	1601	1864
1"	15	0.92	512	692	846	988	1119	1306
1"	18	0.17	1686	2260	2766	3225	3648	4239
1"	18	0.26	1276	1713	2100	2448	2769	3219
1"	18	0.40	984	1319	1617	1886	2136	2484
1"	18	0.53	817	1099	1345	1568	1778	2067
1"	18	0.92	568	764	938	1096	1243	1447
avy Wall (Diamete	er In Millimeters)							
16 mm	45	0.17	650	919	1165	1394	1608	1906
16 mm	45	0.26	489	696	883	1056	1217	1447
16 mm	45	0.40	374	535	676	814	938	1115
16 mm	45	0.53	312	443	561	673	778	925
16 mm	45	0.92	276	387	489	584	673	794
18 mm	45	0.17	874	1225	1542	1836	2106	2485
18 mm	45	0.26	659	925	1167	1388	1594	1885
18 mm	45	0.40	505	711	898	1068	1228	1452
18 mm	45	0.53	419	590	744	886	1020	1206
18 mm	45	0.92	290	408	517	617	709	839
20 mm	47	0.17	1112	1542	1929	2280	2608	3068
20 mm	47	0.26	840	1168	1463	1732	1982	2329
20 mm	47	0.40	646	899	1125	1332	1526	1795
20 mm	47	0.53	535	745	932	1106	1266	1493
20 mm	47	0.92	371	517	648	769	882	1038



www.rivulis.com

This literature has been compiled for worldwide circulation and the descriptions, photos, and information are for general purpose use only. Please consult with an irrigation specialist and technical specifications for proper use of products. Because some products are not available in all regions, please contact your local dealer for details. Every effort has been used to ensure that product information, including data sheets, schematics, manuals and brochures are correct. However, information should be verified before making any decisions based on this information. Rivulis reserves the right to change specifications and the design of all products without notice.

OWRD

Munro LP Series 3/4hp - 5hp



Designed specifically for turf irrigation, this self-priming pump provides outstanding performance to horsepower ratio. Our LP Series is truly heavy duty, offering standard high-end features that our competitors only offer as pricey add-ons. Professionals trust the LP Series to deliver trouble-free performance.

- Brass impeller durable and low maintenance with the longest life in its class
- Silica carbide seal proven toughness stands up to less than ideal conditions
- Cast iron body and internal components heavy duty for long-term performance and reliability

COMMON APPLICATIONS

- Residential turf irrigation: Drawing water from ponds, lakes, streams, cisterns and shallow wells
- Booster: Boost domestic water pressure for use in irrigation
- Water transfer

ADVANTAGES

Durable and long lasting – While many centrifugal turf irrigation pumps are made out of plastic, which wears and warps, cast iron construction and a brass impeller mean that our self-priming pumps are built to stand the test of time, even in difficult environments. Testing in tough conditions shows Munro LP series pumps last up to four times as long as typical competitors products.

Industry leading performance to horsepower – The proof is in our curves. In many cases a lower horsepower Munro LP pump will meet the same GPM performance that you'd expect to see only in higher horsepower pumps. With greater starting torque and an efficient run cycle, our pumps truly lead the pack.

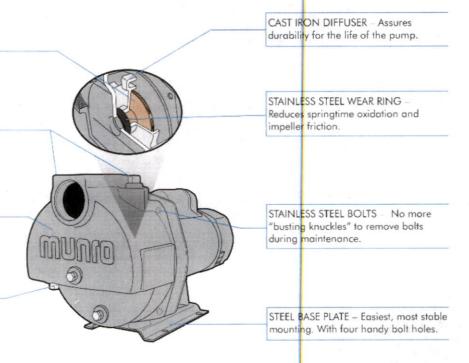
Easy to install and maintain – With two priming ports and a durable steel base plate, installing a Munro LP Series is a snap. When it's time to maintain or winterize the pump, you'll love our two drain valves. A stainless steel wear ring reduces oxidation and friction, minimizing wear and repairs. If you do have to service the pump, stainless steel bolts and a dry-socket design provide easy access.

BRASS IMPELLER – Longest life in its class. Offers greatest durability and reduces costly maintenance vs. plastic impellers.

BUILT-IN PRIMING & DRAIN PORTS – Added start-up and maintenance convenience, no extra parts to buy.

CAST IRON CONSTRUCTION –
Designed for long term performance,
season after season. No plastic case to
warp or crack.

SENSOR PORT – Allows temperature monitoring to avoid costly maintenance issues.



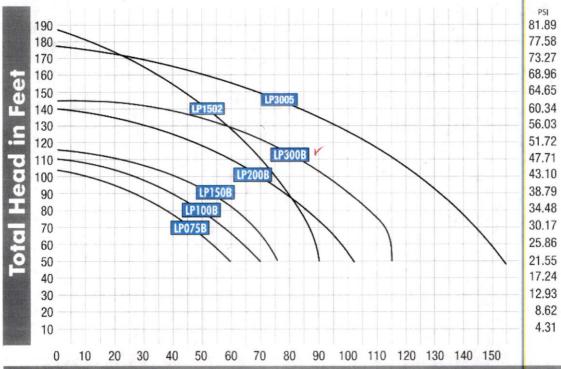
MUULO

SEP 2 2 2021

OWRD

Curves





Gallons Per Minute

Performance

HORSEPOWER RANGE: 3/4 - 3

НР		7	Di			ns per Minute at 5' Suction L	ift			Shut Off Pressure	Model Number
	S 20 ·	25	30	35	40	45	50	55	60	PSI	Number
3/4	63	53	43	33	25					45	LP075B
1	73	65	. 57	47	35	18				47	LP100B
1-1/2	75	70	68	60	48	35				49	LP150B
2	102	98	92	82	74	61	52	40		60	LP200B
3	115	114	112	105	100	88	72	56	3 <mark>0</mark>	61	LP300B

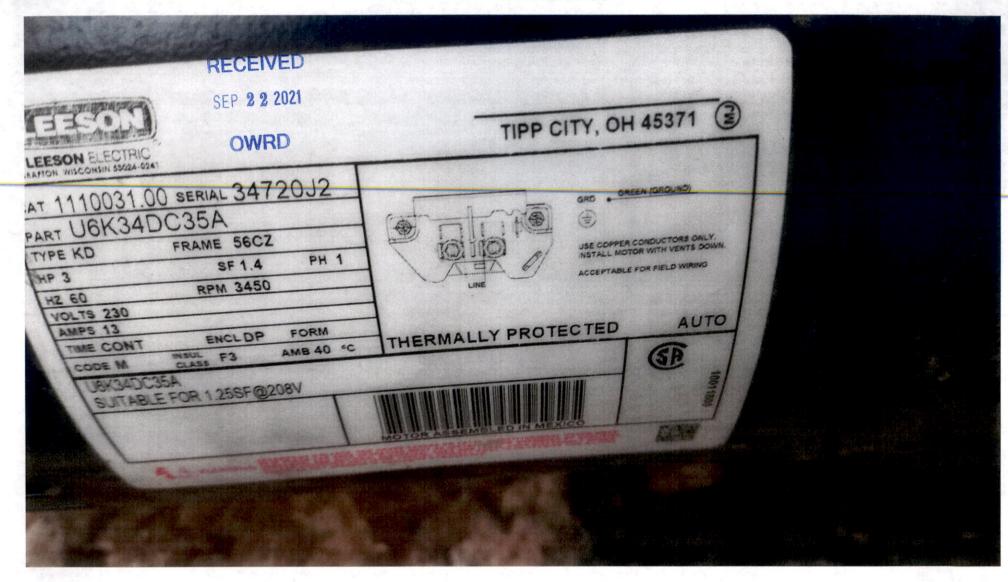
HORSEPOWER RANGE: 2

HP				capacity – U.S. G harge Pressure (=	Shut Off Pressure	Model Number
	20	30	40	50	60	70	80	90	PSI	Nomber
2			75	67	56	38		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80	LP1502B

HORSEPOWER RANGE: 5

НР						U.S. Gallon ssure (PSI) c						Shut Off Pressure	Model Number
	20	25	30	35	40	45	50	55	60	65	70	PSI	
5	1	150	145	137	132	123	110	98	85	67	47	75	LP3005B

Suction lift varies, depending upon elevation (altitude) and water temperatures. Max lift is 15 feet at 5000 feet elevation. Maximum case pressure is 150 PSI. 3 phase models available.



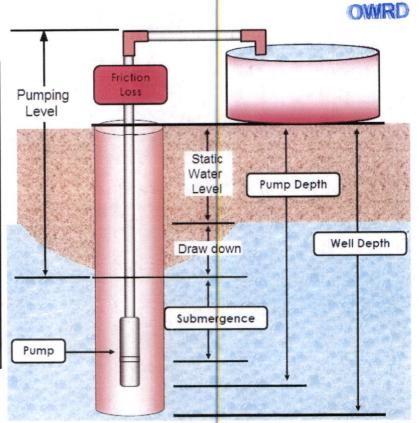


Deep Well Submersible Pumps by HALLMAKR INDUSTRIES INC®



Performance and sizing chart

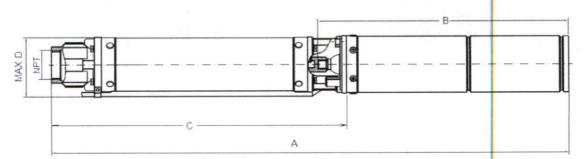
					TRANSPORT OF	
Pump series	MA 0343X series	MA 0414X series	MA 0419X series	MA 0431X series	MA 0459X series	MA 0460 serie
Pump series	SSMA 0343X series	SSMA 0414X series	SSMA 0419X series	SSMA 0431X series	SSMA 0459X series	SSM 0460 serie
Pump's Max rated Head	150 (ft)	207 (ft)	400 (ft)	625 (ft)	247 (ft)	240 (ft)
Max pumping level for 20/40 psi setting	55 (ft)	114 (ft)	307 (ft)	530 (ft)	154 (ft)	147 (ft)
Max pumping level for 30/50 psi setting	33 (ft)	91 (ft)	284 (ft)	508 (ft)	131 (ft)	124 (ft)
Max pumping level for 40/60 psi setting	9 (ft)	68 (ft)	261 (ft)	486 (ft)	108 (ft)	101 (ft)
Fits min well casing ID (inch)	5	5	4	5	4	4



HALLMARK INDUSTRIES INC.

PUMP DIMENSIONS (inch [mm])

	MA0343X-4	MA0343X-4A	MA0414X-7	MA0414X-7A	MA0460X-9	MA0460X-9A	MA0419X-12A	MA0431X-18A	MA0459X-14	MA0459X-14A
SS series	SS.MA0343X	SS.MA0343X	SS.MA0414X	SS.MA0414X	SS.MA0460X	SS.MA0460X	SS.MA0419X	SS.MA0431X	SS.MA0459X	SS.MA0459X
D MAX	4	4	3.8	3.8	3.8	3.8	3.8	4	3.3	3.3
NPT	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1	1
C (inch)	13.74	13.74	16.65	16.65	17.72	17.72	23.86	28.86	21.26	21.26
B (inch)	15.59	15.59	17.32	17.32	17.32	17.32	21.14	22.24	17.05	17.05
A (inch)	25.83	25.83	32.09	32.09	33.15	33.15	44.65	49.21	36.89	36.89



HALLMARK INDUSTRIES, INC.

RapidFlo®			4" Deep Well Submersible Pump Performance chart										
D		Power	•	Flow M ³ /H	0	1.2	2	3.2	4	5.6	6.4	7.4	Weight
Part #	HP	Volt	Amp	Flow GPM	0	5.3	8.8	14.1	17.6	24.7	28.2	32	(lbs)
MA0414X-7 SS.MA0414X-7-115	1	115	10.2	H (ft)	207	195	184	161	138	82	52	11	30
MA0414X-7A SS.MA0414X-7A-230	1	230	5.1	H (ft)	207	195	184	161	138	82	52	11 R	ECFIVE

A	В	C	D	E	MAX
32.1"	17.3"	16.7	1-1/4 NPT	3.5"	3.7"



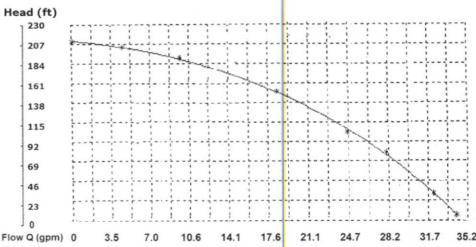
Features & Technical Specifications:

SEP 2 2 2021

- 3.7" deep well submersible pump, 8 stage, 207 feet max head.
- Fits 4" ID or larger well casing.

OWRD

- Patented impeller provides heavy duty high flow: 33 GPM. That is greater than almost all other 1 HP well pumps.
- Water temperature:
- $(32 \sim 113^{\circ}F)$
- Trans medium's Ph:
- 6.5~ 8.5
- Solid stainless steel body with heavy duty cast iron or stainless discharge
- Industrial grade heavy duty, also good for home usage
- Built in capacitor start, and thermal protection for longer life and powerful start.
- Built in control box. This pump DOES NOT require an external control box!
- This pump uses high quality and high efficient motor.
- This is a 2 wire pump with 3-Wire (2 wires + ground wire)
- 10' long electric cord comes with this submersible deep well pump.
- 11/4" NPT discharge
- Designed to fit inside 4" ID or larger pipe/well casing
- Heavy-duty thermoplastic impellers, diffusers, and intake screen.
- High efficiency, hermetically sealed motor is thermally protected to prevent overheating.
- Submersible design eliminates the need for priming and creates quiet operation



Head vs. Flow Performance Curve

HALLMARK INDUSTRIES, INC.



WATER METERS

THE MOST RELIABLE AND ACCURATE WATER METERS

MEASUREMENT IS THE KEY TO GOOD, EFFECTIVE WATER MANAGEMENT

It is a fact that all crops are affected if irrigation is not consistent and accurate. The use of water meters ensures growers are able to measure and effectively manage the watering of their crops. Netafim Water Meters provide the confidence and assurance that the correct amount of water and fertilizer (nutrients) are being delivered to the crop maximizing yields and reducing energy costs.

- Measuring your irrigation water with a Water Meter is a more accurate way to deliver water to a crop.
- Water Meters monitor system performance and record total water applied.
- Water Meters ensure verification of water received versus water pumped or purchased.
- Provide accurate water measurement if required by private or governmental agency.

NETAFIM FAMILY OF WATER METERS



OCTAVE ULTRASONIC WATER METER

(CAST IRON BODY)



'IRT' WATER METER

(CAST IRON BODY)



'WST' WATER METERS (CAST IRON BODY)



'M' WATER METER
(COPPER ALLOY BODY)



'M' WATER METER (PLASTIC BODY)



FERTILIZER METER (PVC BODY)

SEP 2 2 2021

OWRD



HYDROMETER (CAST IRON BODY)



FERTILIZER METER (PLASTIC BODY)

APPLICATION & INSTALLATION CONSIDERATIONS

Determining the appropriate water meter for your application involves several requirements: Water Quality, Flow Range and Straight Pipe Installation Requirement. The following information will help with the selection of the right water meter for your site requirements.

WATER QUALITY

The quality of irrigation water is an important consideration when choosing the right water meter for your system. Netafim has a full line of water meters for accurate measuring in good or poor water conditions.

GOOD WATER CONDITIONS

- Water with minimal organic materials
- Well water with minimal sand

A water meter with a full diameter impeller is recommended for good water conditions.

POOR WATER CONDITIONS

- Water with moderate organic materials
- Well water with sand

A water meter with a paddle wheel is recommended for poor water conditions. The water is measured with a paddle wheel located at the top of the water passage providing a free water passage eliminating clogging from debris. Paddle wheel water meters can also be used in good water conditions. However, water meters should always be installed downstream of a filter.



FULL DIAMETER IMPELLER
(SIDE VIEW)

RECEIVED

SEP 2 2 2021

OWRD



PADDLE WHEEL (SIDE VIEW)

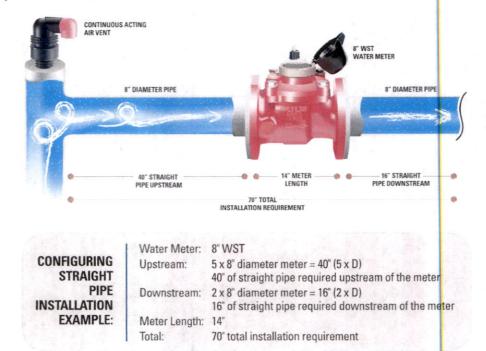
FLOW RANGE

Water meter functionality and accuracy is dependent on minimum and maximum flow ranges. Netafim water meters accurately measure water from a minimum of 0.9 GPM up to a maximum of 5,500 GPM.

STRAIGHT PIPE INSTALLATION REQUIREMENT

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). When the straight pipe installation requirement refers to D (diameter), this is the size of the water 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 required.



RECEIVED

SEP 2 2 2021

WATER METER SELECTION

OCTAVE ULTRASONIC WATER METERS

STRAIGHT PIPE REQUIREMENT 2 B X 2 D



SIZE	MINIMUM FLOW RATE	MAXIMUM FLOW RATE	INSTALLATION REQUIREMENT *
2"	0.25 GPM	250 GPM	16" TOTAL
3"	1 GPM	500 GPM	21" TOTAL
4"	1.5 GPM	1,000 GPM	25" TOTAL
6"	3 GPM	2,000 GPM	36" TOTAL
8"	5 GPM	3,500 GPM	46" TOTAL
10"	14 GPM	5,500 GPM	68" TOTAL
12"	14 GPM	5,500 GPM	68" TOTAL

OWRD

HYDROMETERS STRAIGHT PIPE REQUIFEMENT: 0 D X 0 D



SIZE	MINIMUM FLOW RATE	MAXIMUM FLOW RATE	INSTALLATION REQUIREMENT *
1.5"	4.4 GPM	55 GPM	6 15/16" TOTAL
2"	20 GPM	95 GPM	8 11/16" TOTAL
3"	53 GPM	220 GPM	11 1/4" TOTAL
4"	79 GPM	380 GPM	14 13/16" TOTAL
6"	198 GPM	860 GPM	9 11/16" TOTAL
8"	357 GPM	1,500 GPM	23 9/16" TOTAL

'IRT' WATER METERS

STRAIGHT PIPE REQUIREMENT: 10 D X 5 D



SIZE	FLOW RATE	FLOW RATE	INSTALLATION REQUIREMENT *
3"	45 GPM	500 GPM	54" TOTAL
4"	50 GPM	688 GPM	70" TOTAL
6"	65 GPM	1,375 GPM	102" TOTAL
8"	130 GPM	2,475 GPM	134" TOTAL
10"	300 GPM	4,125 GPM	166" TOTAL

X

'WMR' WAIER MEIERS STRAIGHT PIPE RECUIF EMENT: 10 D X 5.

Section 1

SIZE	MINIMUM FLOW RATE	MAXIMUM FLOW RATE	INSTALLATION REQUIREMENT *
2"	8.8 GPM	110 GPM	44" TOTAL

'WST' WATER METERS

STRAIGHT PIPE REQUIREMENT: 5 D X 2 D



SIZE	FLOW RATE	FLOW RATE	REQUIREMENT *
3"	4.0 GPM	660 GPM	30" TOTAL
4"	8.0 GPM	1,266 GPM	38" TOTAL
6"	15 GPM	1,431 GPM	54" TOTAL
8"	38 GPM	2,475 GPM	70" TOTAL

'M' WATER METERS

STRAIGHT PIPE REQUIRED ENT OD X O D



SIZE	MINIMUM FLOW RATE	MAXIMUM FLOW RATE	INSTALLATION REQUIREMENT *
3/4" PLASTIC	0.9 GPM	14 GPM	11 1/4" TOTAL
3/4" IRON	0.9 GPM	14 GPM	11 1/4" TOTAL
1" PLASTIC	1.2 GPM	20 GPM	14 3/4" TOTAL
1" IRON	1.2 GPM	20 GPM	14 3/4" TOTAL
1 1/2" IRON	3.5 GPM	55 GPM	17 1/4" TOTAL

'WST' WATER METERS

STRAIGHT PIPE REQUIREMENT 10 D X 5 D



SIZE	FLOW RATE	MAXIMUM FLOW RATE	INSTALLATION REQUIREMENT *
10"	44 GPM	4,125 GPM	168" TOTAL
12"	51 GPM	5,500 GPM	200" TOTAL

FERTILIZER METERS

I STRAIGHT PIPE REQUIREMENT: 0 D X 0 D



	SIZE	MINIMUM FLOW RATE	MAXIMUM FLOW RATE	INSTALLATION REQUIREMENT *
	3/4"	0.3 GPM	2.2 GPM	4 3/8" TOTAL
_	1"	1.8 GPM	44 GPM	6" TOTAL

- * Installation Requirement = Straight Pipe Upstream + Meter Length + Straight Pipe Downstream
- ± 2% Accuracy Rate for Minimum and Maximum Flow Rates for: Saddle Meter, 'IRT', 'WST', 'WMR', 'M' and Fertilizer Meters
- ± 1.5% Accuracy Rate for Minimum and Maximum Flow Rates for: Octave Ultrasonic Water Meters

WATER METER REGISTERS

Netafim registers are simple to operate while providing reliable and accurate readings. Features include:

- Hermetically sealed guaranteed not to accumulate moisture or fog.
- Mounted in a dry compartment no contact with the water.
- Instantaneous readings easy to read.
- Removable even when the meter is operating.

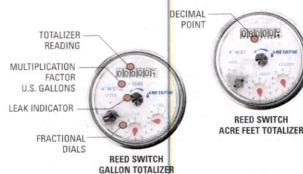
- Electrical output driven by a magnetic coupling that activates a reed switch creating a pulsed output for communicating with control and monitoring equipment.
- Interchangeable and easily replaced with common tools.

REED SWITCH REGISTER

GALLON OR ACRE FEET TOTALIZER

The Reed Switch Register has a low frequency pulse output for communicating with control and monitoring equipment. A leak indicator in the center of the dial registers the lowest flow through the meter. Flows are totalled in U.S. Gallons and each dial face indicates the multiplication factor (located directly under the totalizer reading) or flows are totalled in Acre Feet with the decimal point indicated in blue on the register. Three small fractional dials measure quantities smaller than the totalizer reading. ELECTRICAL SPECIFICATIONS

- Maximum contact current: 50 mA
- Maximum contact voltage: 48 VDC



RECEIVED

SEP 2 2 2021

ELECTRONIC (ER) DIGITAL REGISTER

GPM RATE OF FLOW WITH GALLON OR ACRE FEET TOTALIZER

Combines standard digital register features with dry pulse output capabilities. Clearly displays the rate of flow and volume readings in Gallons or Acre Feet. Mounted inside an IP68 stainless steel glass encapsulated cap. Multi-line digital LCD readout displays 9 digits for Total Volume in U.S. Gallons (U.S.G.) or Acre Feet and 4 digits for Rate of Flow in Gallons per Minute (GPM). It's programmable to a wide variety of pipe sizes. Register is interchangeable with common tools.

ELECTRICAL SPECIFICATIONS

- Minimum voltage: 3.6 VDC
- Maximum contact current: 200 mA
- Maximum contact voltage: 40 VDC

 Maximum distance between meter and control board: 65'



PHOTO DIODE REGISTER

GALLON TOTALIZER

A sensor combines an IR light source and a light sensitive diode in one package. Signals are created when the light beam created by the IR light is interrupted by a rotating element. The Photo Diode Register includes pulse output (open collector) for communicating with control and monitoring equipment. This register requires a constant supply of DC power. Flows are totalled in U.S. Gallons based on the multiplication factors indicated on the dial face.

ELECTRICAL SPECIFICATIONS

- Positive (Yellow wire): 20-30 mA through a resistor
- Output (Transparent wire): Open collector, max. load 2 mA
- Ground (Bare wire)

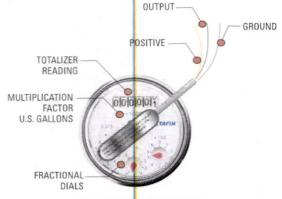


PHOTO DIODE GALLON TOTALIZER



PULSE OUTPUT

WITH PULSE REED SWITCH

The Pulse Reed Switch is activated by a magnet installed on a fractional dial. It acts as a 'dry contact' and consumes very little power. The reed switch sensor is installed in the transparent plastic cover over the register and can be mounted in any of three positions facing the pointer with the magnet.



NETAFIM USA

5470 E. HOME AVE. FRESNO, CA 93727 CS 888 638 2346 www.netafimusa.com 20210820_082607.jpg

RECEIVED

SEP 2 2 2021

OWRD





280

280 PC



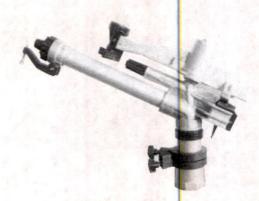


Overhead sprinklers

Giant sprinkler, 2" female

Applications: permanent and supplementary irrigation of sugarcane, maize, and cotton crops, pastures and plantations

- · High water distribution with spacing up to 50 m
- · Slow rotation at uniform speed
- · Lightweight and easy to handle
- · Adjustable diffuser screws for each nozzle allows stream breakage at low pressure conditions
- · Non-clog straightening vane to ensure excellent coverage in windy conditions



RECEIVED

SEP 2 2 2021

OWRD

Overhead sprinklers

Full- and part-circle giant sprinkler, 2" female

Specifically designed for irrigation of field edges Applications: permanent or mechanized irrigation of sugarcane fields, horse pastures, paddocks, arenas, feedlots, sod farms and for dust control

- Slow-return mechanism ensures safe operation
- · Lightweight and easy to handle
- · Adjustable diffuser screws allows stream breakage at low pressure conditions
- · Interchangeable plastic nozzles
- Non-clog straightening vane for wider irrigation range and windresistance

280PC PERFORMANCE TABLE

(bar)

4.0

2.0

2.0

4.0

2.0

4.0 3.0

(mm)

2.0×8.0

4.0×8.0

6.0×8.0*

8.0×8.0

20.0×8.0

22.0×8.0

280 PERFORMANCE TABLE

Nozzle color (mm)	P (bar) (Q (m³/h)	D (m)
	1.5	9.50	40
	2.0	11.0	46
2.0x8.0	3.0	13.40	54
	4.0	15.50	60
	5.0	17.30	65
	2.0	13.80	50
14000	3.0	16.80	58
4.0x8.0	4.0	19.50	64
	5.0	21.80	68
	2.0	16.90	54
6.0×8.0*	3.0	20.60	62
6.UX8.U*	4.0	23.90	68
	5.0	26.70	74
	2.0	20.60	56
8.0x8.0	3.0	26.00	66
0.0X0.0	4.0	30.30	72
	5.0	33.60	80
	2.0	24.60	58
20.0x8.0	3.0	31.20	68
ZU,UXO.U	4.0	36.30	76
	5.0	39.40	86
	3.0	35.40	69
22.0×8.0	4.0	40.90	78
22.UX8.U	5.0	45.90	88
	6.0	50.30	93

* Performance table prepared under laboratory conditions

* For windy conditions use closer spacing * Recomended working pressure minimum 3.0 bar



1 Cubic Hetce per hour (M3/h) Performance table prepared under laboratory conditions

= 1,000 Liters Per Hour = 264 anh = 4.4 apm

* For windy conditions use closer spacing * Recomended working pressure minimum 3.0 bar

NAANDANJAIN Ltd

27

(m)

40

60

72

58

76

69

11.0

15.50

20.60

30.30

24.60

31.20

36.30

35.40



RECEIVED

SEP 2 2 2021

OWRD



SIME "FUNNY

RECEIVED

SEP 2 2 2021

OWRD

Map Checklist

RECEIVED
SEP 2 2 2021

OWRD

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

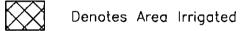
\boxtimes	Map on polyester film
	Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
\boxtimes	Township, Range, Section, Donation Land Claims, and Government Lots
	If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
\boxtimes	Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
	Locations of meters and/or measuring devices in relationship to point of diversion or appropriation
	Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.) *Not required for this type of Claim of Beneficial Use
	Point(s) of diversion or appropriation (illustrated and coordinates)
	Tax lot boundaries and numbers
\boxtimes	Source illustrated if surface water
	Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
\boxtimes	Application and permit number or transfer number – T-12477
\boxtimes	North arrow
\boxtimes	Legend
	CWRE stamp and signature



Scale: 1''=400'Date: September 7, 2021

LEGEND

- Found Survey Monument
- Denotes Building
- Denotes Buried Pipeline Location Approximate



- Denotes Flow Meter
- Denotes Fish Screen

Note: Fish Screen and Flow Meter At Point of Diversion

This map was prepared for the purpose of identifying the location of a water right only and is not intended to provide legal dimensions or location of property ownership.

152 WREparoen. HAROLD L. CENTER Sr. MAY 17, 1988.

Renews: 12-31-21

HAROLD L. CENTER 2604 David Lane Medford, OR. 97504 Phone 541-535-6108 Oregon Certificate No. 152

Self_Thompson_21-16 Project:

CLAIM OF BENEFICIAL USE MAP - TRANSFER-T 12477 SW1/4NE1/4, SECTION 7, TAX LOT 400 MAP 39 4W 07 TOWNSHIP 39 SOUTH, RANGE 4 WEST, W.M. JACKSON COUNTY, OREGON

> FOR STEVEN M. SELF 226 N. PAGF ST. PORTLAND, OR 97227

T.39S., R.4W., Sec. 7 SW1/4NE1/4 Darniel Creek-Tax Lot Line Tax Lot 400 39 4W 07 SELF, S.M. Source: Thompson Creek, Ruch Gulch, O'brien & Sturgis Forks of Applegate River, Big Millers Lake Reservoir Center 1/4 Corner Found Centereast 1/16 Corner NE1/4SW1/4 NW1/4SE1/4 Situs: 5366 Thompson Pipeline Creek Road Proposed Point of Diversion, North 105' and West 420' From Centereast 1/16 Thompson Creek Road Thompson Creek-RECEIVED Tax Lot 801 Ruch Gulch SEP 2 2 2021 Creek OWRD