

NETAFIM USA



PRECISION MOBILE DRIP IRRIGATION (PMDI™)

**DRIP IRRIGATION PRECISION, ACCURACY AND FLEXIBILITY
COMBINED WITH PIVOT SYSTEM MOBILITY**

SIMPLE, RELIABLE, AFFORDABLE

PRECISION MOBILE DRIP IRRIGATION (PMDI™)

The patented technology of PMDI combines the efficiency of surface drip irrigation with the flexibility of center pivot and linear move irrigation systems. While conventional center pivot and linear move irrigation water application packages are efficient and provide many different options for distributing water, PMDI technology provides increased system application efficiency through precision drip irrigation with the slow methodical release of water and nutrients directly to the soil area for optimal plant growth.

SIMPLE: minimal components, easy to install and maintain

RELIABLE: quality Netafim products from the proven leader in drip irrigation

AFFORDABLE: a fraction of the cost of a subsurface drip system and it's available on any model of center pivot and linear move systems

**UP TO 20% - 30%
WATER SAVINGS**

Compared to
Conventional Water
Packages

Are you faced with water restrictions and deficit irrigation? The PMDI system is an ideal solution for growers to maintain yields even with lower water availability. Crops can be effectively irrigated even with very low gallons per minute wells. This technology provides accuracy of water management and greater efficiency than standard pivot nozzling. But best of all, it delivers the most even water pattern/application available. You'll get all the efficiency of a subsurface drip system at a lower cost per acre versus a conventional center pivot system.

Drip has proven, time and again, that it helps growers improve crop quality and yields. Water and nutrients are used more efficiently so input costs are reduced. This results in higher yields - up to 20% yield increases have been recorded over a conventional center pivot system - and a uniform, quality crop throughout the entire field.

HOW DOES IT WORK?

PMDI consists of Netafim's DripNet PC™ dripline which is attached to the end of a center pivot or linear move irrigation system's rigid or flexible drop and/or a manifold (recommended) - whichever method is best for the crop being irrigated. The dripline is dragged through the crop by the center pivot or linear move system. As the dripline is pulled behind the system, the emitters deliver a uniform water pattern across the entire irrigated area. The water is applied directly to the soil surface significantly reducing inefficiencies due to surface area and wind drift. This allows deeper percolation to the plant's root zone.

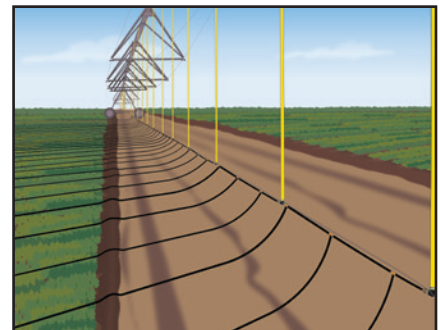
DripNet PC dripline has pressure compensating emitters welded to the internal wall of the dripline every 6". These driplines are spaced at 20", 22", 30" and 40" between lateral lines depending on the soil type and the crop.

PMDI ADVANTAGES

- Potential for 20-30% water savings
- Can be used on either tall and short crops
- Significantly reduces evaporation and eliminates wind drift
- Reduces and/or eliminates wheel track issues
- Soil stays moist without crusting while soil compaction is reduced or eliminated
- Increases soil moisture resulting in more water banked into the soil profile
- Reduces plugged and frozen nozzles during winter watering

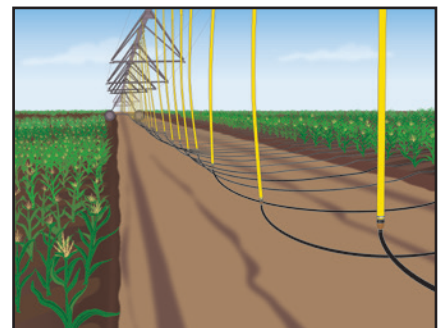
SHORT CROP APPLICATIONS

Unique PMDI manifold attaches directly to the pivot's rigid or flexible drop for successful irrigation of crops such as soybeans, wheat, potatoes, onions and alfalfa.



TALL CROP APPLICATIONS

PMDI dripline (DripNet PC) attaches directly to the pivot's rigid or flexible drop for successful irrigation of crops such as corn and small grains.



SIMPLE, RELIABLE, AFFORDABLE

PMDI COMPONENTS

Based on the application, tall or short crop, the PMDI system components are blank polyethylene tubing, DripNet PC pressure compensating heavywall dripline and attachment fittings.



DRIPNET PC PRESSURE COMPENSATING DRIPLINE

- Emitter's anti-siphon mechanism prevents suction of dirt into the dripline
- Continuous self-cleaning, self-flushing emitter diaphragm cleans debris throughout the entire irrigation cycle
- Patented TurboNet emitter design's wide flow path allows large particles to pass through the short flow path eliminating build-up of debris

SPECIFICATIONS

Inside Diameter	0.570"
Wall Thickness	45 mil
Emitter Flow Rate	1 GPH
Emitter Spacing	6"
Minimum Filtration	80 mesh

PMDI MANIFOLD

- Polyethylene tubing made from the highest quality, linear low-density resins, UV and acid resistant (black color)
- Pre-assembled fittings at 20", 22", 30" and 40" spacing
- Tee fitting features one piece construction for strength and durability, fits securely and withstands heat, direct sun and chemicals (brown color)

SPECIFICATIONS

Inside Diameter	0.570"
Outside Diameter	0.660"
Wall Thickness	45 mil
Fittings	0.570" Insert Tee

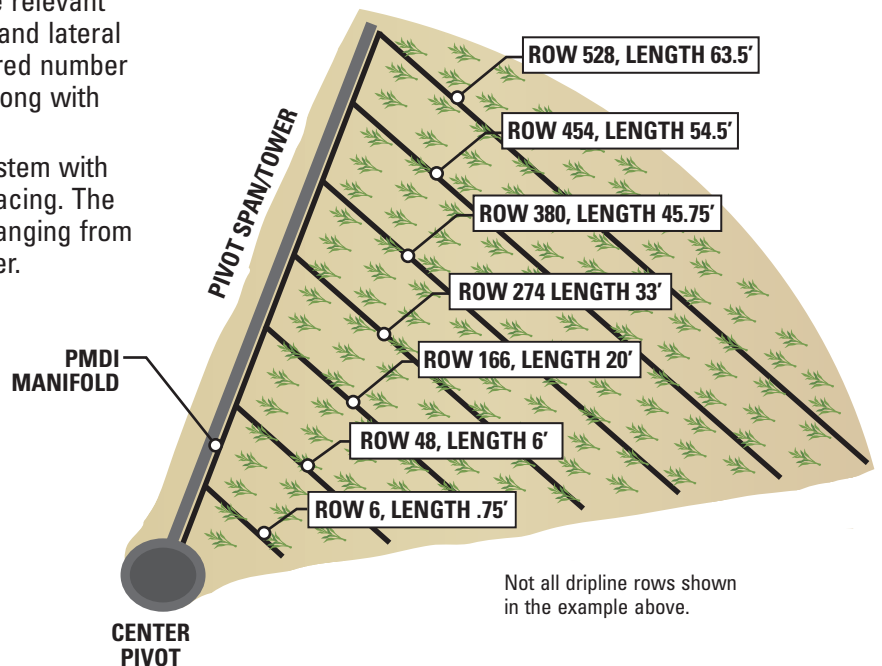
PMDI SYSTEM DESIGN

Our unique Design Calculator makes designing a PMDI system quick and easy. By entering the relevant information such as acres, pivot span/length and lateral spacing, the program will calculate the required number of PMDI manifolds and DripNet PC dripline along with the water usage.

In this example, we are designing a PMDI system with manifolds for a short crop with 30" lateral spacing. The dripline drags behind the pivot with lengths ranging from 1.5' to 63.5' in length based on the row number.

EXAMPLE: SHORT CROP PMDI SYSTEM

Acres	125
Application/Day	0.25"
Total Gallons per Minute	588
Span/Tower Length	1,320'
Lateral Spacing	30"
Total Number of PMDI Manifolds	7
Total Drip Laterals	528
Total Amount of DripNet PC Dripline	17,000'



PMDI ORDERING INFORMATION

PMDI MANIFOLD ORDERING INFORMATION

MODEL NUMBER	FITTING SPACING	COIL LENGTH
PMDIMAN20-100	20"	100'
PMDIMAN20-200	20"	200'
PMDIMAN22-100	22"	100'
PMDIMAN22-200	22"	200'
PMDIMAN30-100	30"	100'
PMDIMAN30-200	30"	200'
PMDIMAN40-100	40"	100'
PMDIMAN40-200	40"	200'



DRIPNET PC ORDERING INFORMATION

MODEL NUMBER	FLOW RATE	EMITTER SPACING	COIL LENGTH
08D5704510-06	1.0 GPH	6"	1,000'



ADDITIONAL SYSTEM COMPONENTS

- FILTERS: Screen, Disc, Sand Media and Sand Separator options
- VALVES: Nylon and Iron with optional control functions
- AIR VENTS: Air release and vacuum release for maximum system protection
- WATER METERS: Flow meters accurately measure water usage

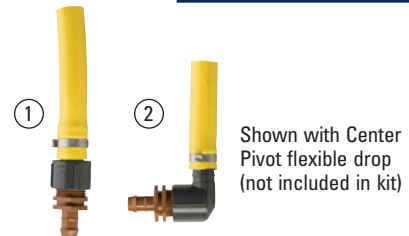
POLYETHYLENE TUBING ORDERING INFORMATION

MODEL NUMBER	OUTSIDE DIAMETER*	INSIDE DIAMETER*	WALL THICKNESS	COIL LENGTH	MAX. WORKING PRESSURE
14057066	0.660"	0.570"	0.045"	1,000'	55 PSI

* Nominal measurement

PMDI DROP KIT ORDERING INFORMATION

KEY	MODEL NUMBER	DESCRIPTION	BAG QTY
1	PMDI075DHAST-B	KIT INCLUDES: 0.570" INSERT ADAPTER X 3/4" MIPT, PMDI INSERT ADAPTER X 3/4" FIPT AND 3/4" CLAMP	10
2	PMDI075DHA90-B	KIT INCLUDES: 0.570" INSERT ADAPTER X 3/4" MIPT, PMDI INSERT ELBOW X 3/4" FIPT AND 3/4" CLAMP	10



PMDI FITTINGS & ACCESSORIES ORDERING INFORMATION

KEY	MODEL NUMBER	DESCRIPTION	BAG QTY
3	H540IE-B	BARB 167 ELBOW CONNECTOR	100
4	H540IC-B	BARB 167 COUPLING	50
5	H540IMA075-B	0.570" BARB INSERT ADAPTER X 3/4" MIPT	50
6	H540IT3-B	BARB 167 TEE CONNECTOR	100
7	H1407-007-B	PMDI BARB INSERT ELBOW X 3/4" FIPT	50
8	H075CLAMP-B	3/4" CLAMP	100
9	H1435-007-B	PMDI BARB INSERT ADAPTER X 3/4" FIPT	50
10	H16/17FLEND-B	FLARE 16/17 LINE END WITH NUT	100
11	HCT1098	CLAMP CRIMPING TOOL	1
12	H540ITFA075-B	0.570" BARB INSERT ADAPTER X 3/4" FIPT	50
13	TL2W075MA	BARB 'V' 2 WAY INSERT X 3/4" MIPT	10
14	58ISV600	INLINE SHUT-OFF VALVE	1



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