

NETAFIM USA

# UNIRAM™ HEAVYWALL DRIPLINE



**THE MOST ADVANCED PRESSURE  
COMPENSATING DRIPLINE DEVELOPED  
TO HANDLE THE POOREST WATER QUALITY  
AND THE STEEPEST TERRAIN WHILE  
PRODUCING THE HIGHEST UNIFORMITY**



 **NETAFIM™**  
GROW MORE WITH LESS

# APPLICATIONS AND SPECIFICATIONS

UniRam is the most advanced technology available today since its dripper design maximizes uniformity, making it the ultimate solution for subsurface applications.

## APPLICATIONS

- For surface or sub-surface applications
- Ideal for high frequency irrigation in undulating terrain
- For poor water quality conditions

## WARRANTY

Netafim offers the industry's longest warranty

- 7 Years: Defects in materials and workmanship
- 10 Years: Environmental stress cracking (surface or subsurface applications)

## SPECIFICATIONS

Inside diameter:

.540" (16mm, 45 mil)	.570" (17mm, 45 mil)
.620" (18mm, 45 mil)	.690" (20mm, 48 mil)
.820" (60 mil)	

Nominal flow rates (GPH):

0.26, 0.33, 0.42, 0.53, 0.61, 0.92, 1.00

Common spacings:

18", 24", 30", 36", 42", 48", 60"

(Custom spacings also available)

Regulating pressure: 7 to 58 psi

Recommended filtration: 80 mesh

(120 mesh for 0.26 and 0.32 GPH)

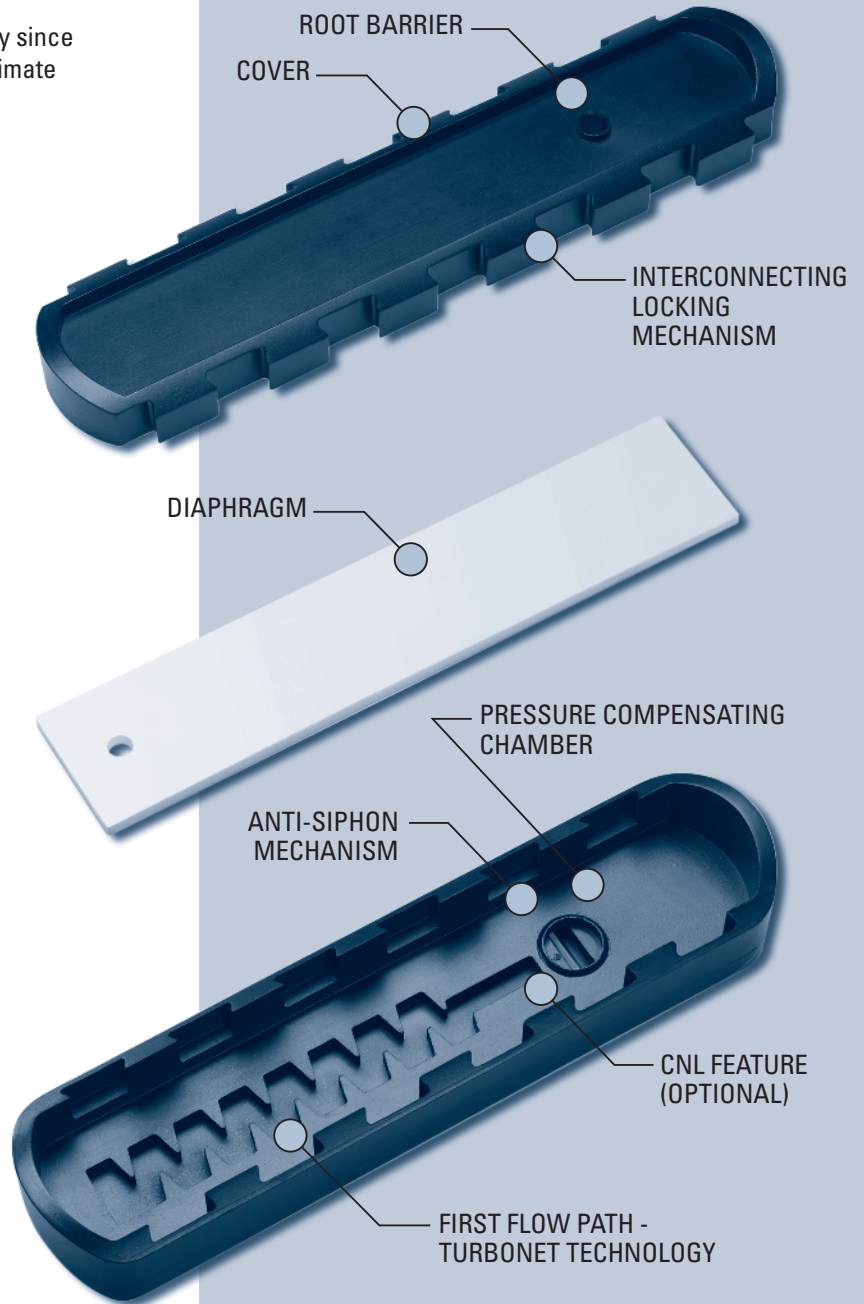
## PACKAGING DATA

TUBING I.D.	MIL	COIL LENGTH	WEIGHT	Kd
.540"	45	1,000'	35 LBS.	1.60
.570"	45	1,000'	37 LBS.	1.20
.620"	45	1,000'	40 LBS.	0.85
.690"	48	1,000'	49 LBS.	0.40
.820"	60	1,000'	69 LBS.	0.30

20 coils per pallet.

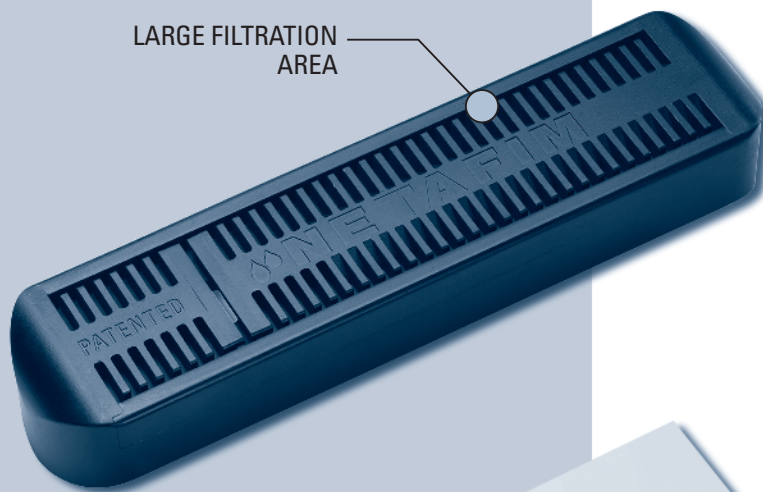
## DRIPPER FLOW PATH DIMENSIONS

DRIPPER	LENGTH	DEPTH	WIDTH	FILTRATION AREA
0.26	1.575"	0.029"	0.033"	0.2015 SQ. IN.
0.33	1.575"	0.029"	0.033"	0.2015 SQ. IN.
0.42	1.575"	0.031"	0.042"	0.2015 SQ. IN.
0.53	1.575"	0.031"	0.042"	0.2015 SQ. IN.
0.61	1.575"	0.037"	0.050"	0.2015 SQ. IN.
0.92	1.575"	0.043"	0.063"	0.2325 SQ. IN.
1.00	1.575"	0.043"	0.063"	0.2325 SQ. IN.

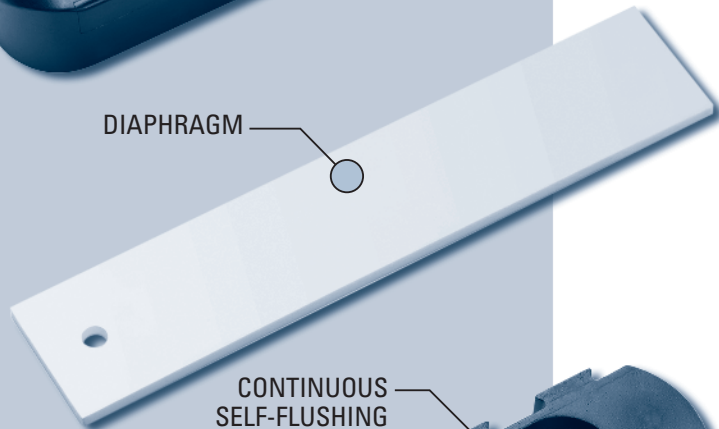




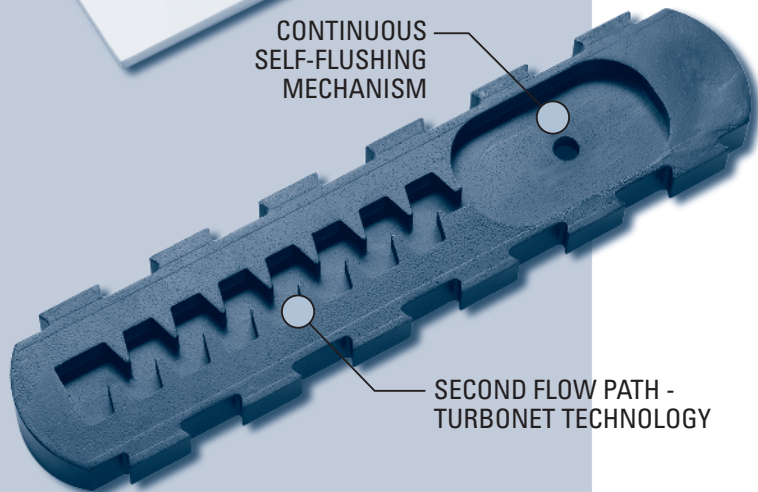
# PRODUCT ADVANTAGES



LARGE FILTRATION AREA



DIAPHRAGM



CONTINUOUS SELF-FLUSHING MECHANISM

SECOND FLOW PATH - TURBONET TECHNOLOGY

## ANTI-SIPHON MECHANISM

Anti-vacuum mechanism prevents suction of dirt into the dripline, providing the critical protection needed against dripper plugging.

## WIDE COMPENSATING RANGE

Wide compensating range maintains a constant uniform flow - longer runs and steep terrains are irrigated with high uniformity.

## EXCLUSIVE NON-LEAKAGE (CNL) MECHANISM - OPTIONAL

Prevents system drainage when pressure is turned off at the end of each irrigation cycle. Ensures uniform water distribution during pulse irrigation.

## WIDEST FLOW PATH - ULTIMATE CLOG RESISTANCE

Operates in extremely poor water quality conditions - designed with two wide flow path allowing larger particles to pass through, preventing plugging.

- Self-flushing mechanism continuously flushes dripper during operation.

## ROOT INTRUSION BARRIER

Prevents roots from penetrating the dripper's mechanism. Ideal for sub-surface irrigation.

## LARGE FILTRATION AREA

Entire base of the UniRam dripper is made of filter inlets - flushing large particles from the dripper, eliminating clogging and maintaining an essential supply of water for uninterrupted operation.

## DIAPHRAGM

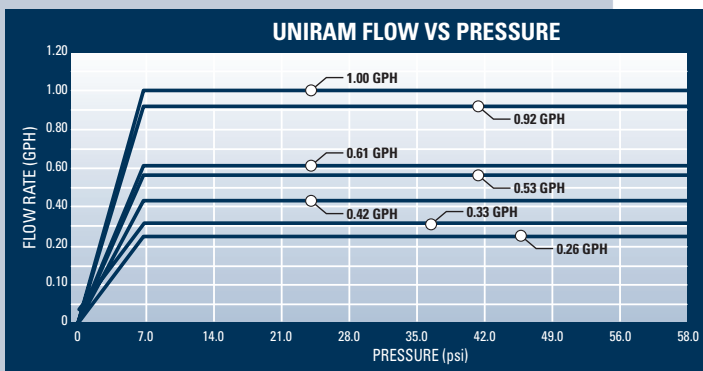
Made of chemical-resistant silicon.

## TURBONET

Commonly used turbulent drippers have overlapping tooth patterns, easily catching debris.

## TURBONET TECHNOLOGY

Improves dripper performance by widening the tooth pattern, maximizing flow path velocity, allowing contaminants to pass easily through the dripper, virtually eliminating plugging.

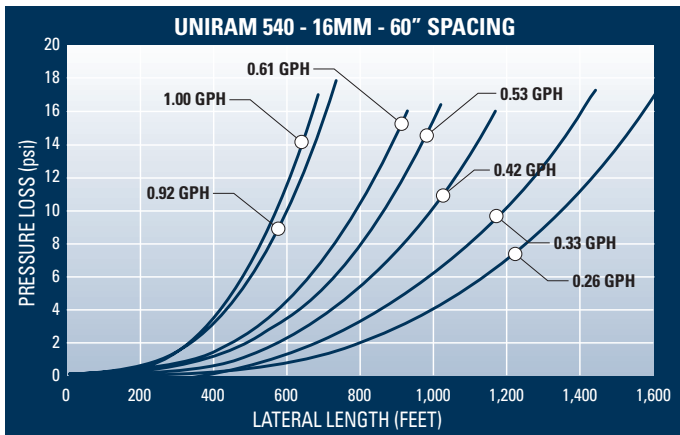
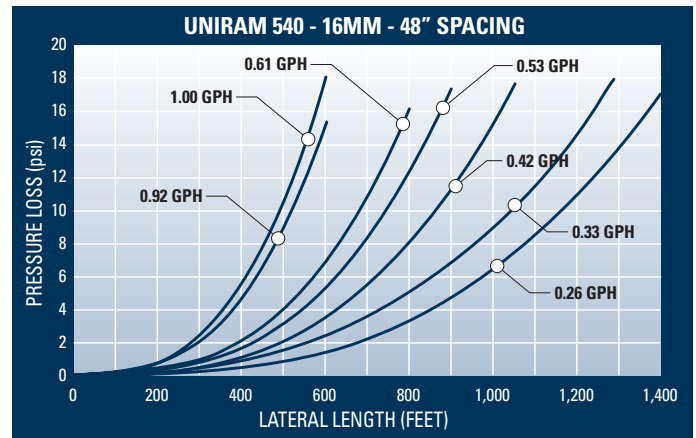
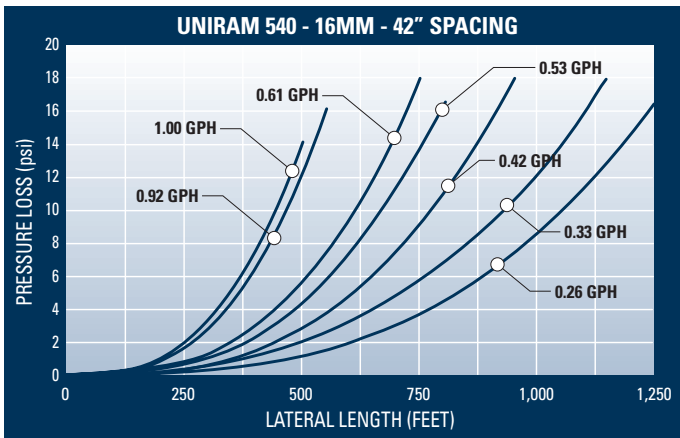
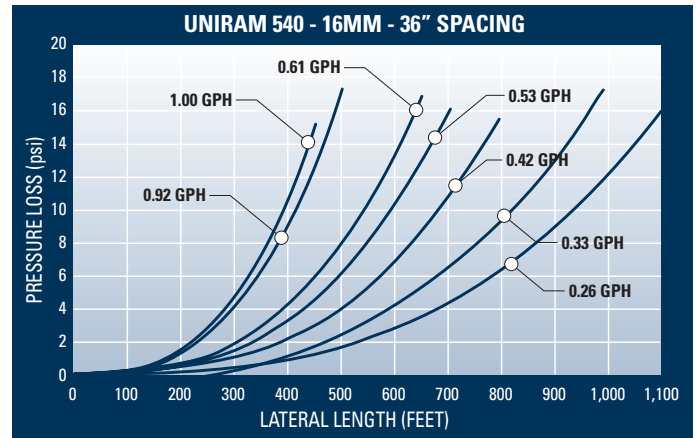
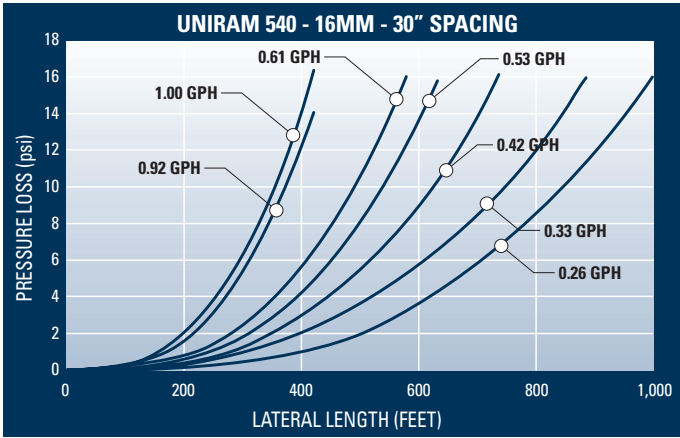
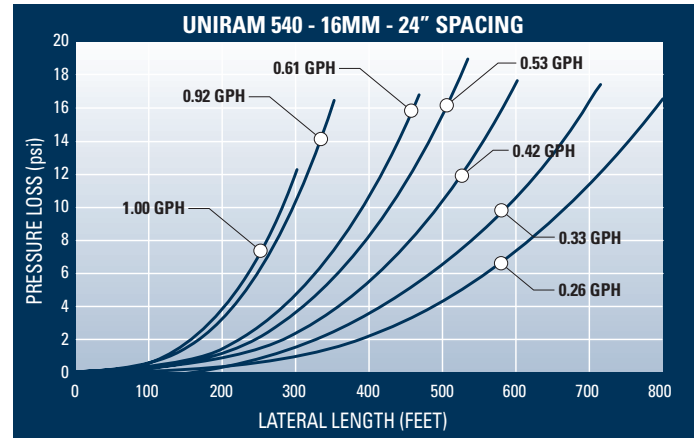
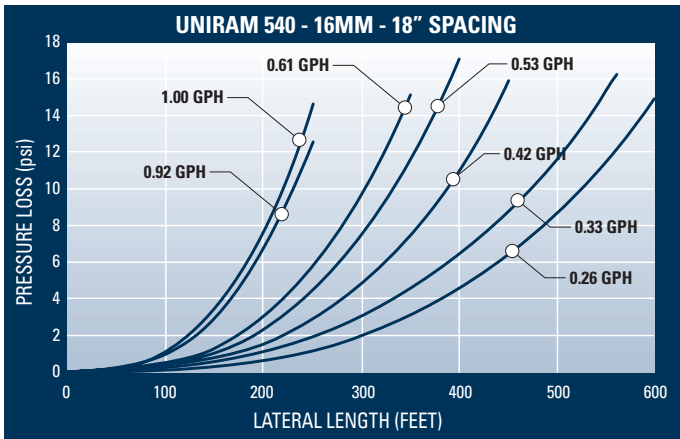


## VINELINE VINEYARD SOLUTIONS

Pre-installed Adjustable Dripline Ring

- Easily adjustable - moves from one end of the dripline to the other preventing water migration
- Economical - saves labor costs
- Available for: .540", .570", .620" and .690" sizes

# UNIRAM .540" (16MM, 45 MIL) HEADLOSS AND LATERAL LENGTH



## EQUATION TO CALCULATE LATERAL LENGTH INLET PRESSURE

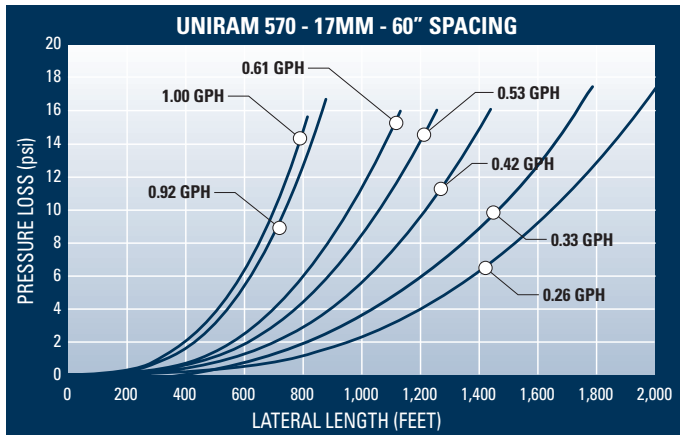
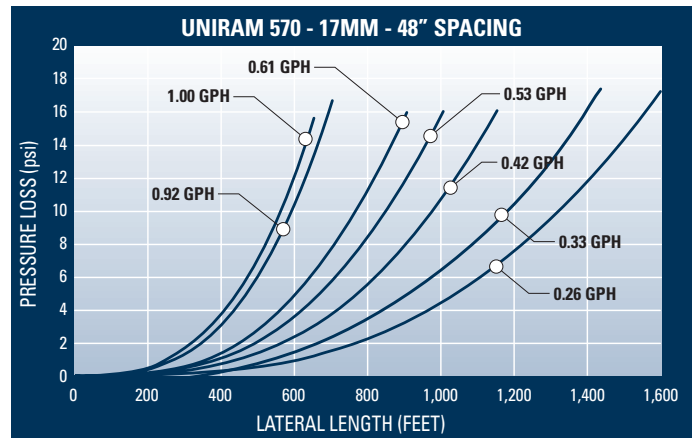
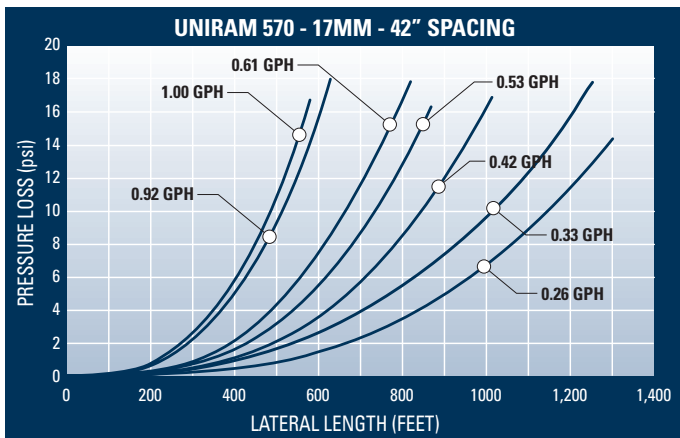
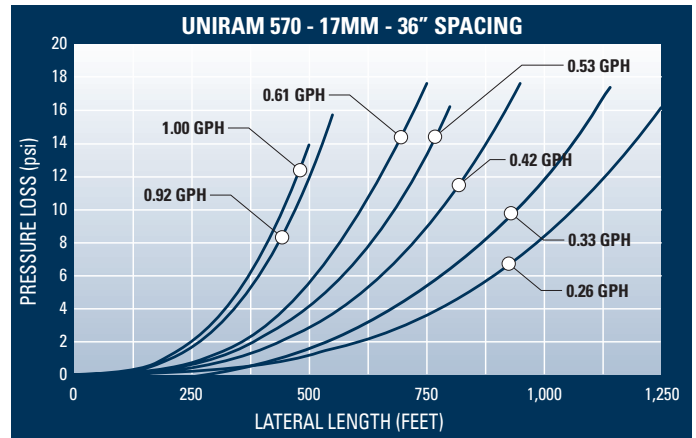
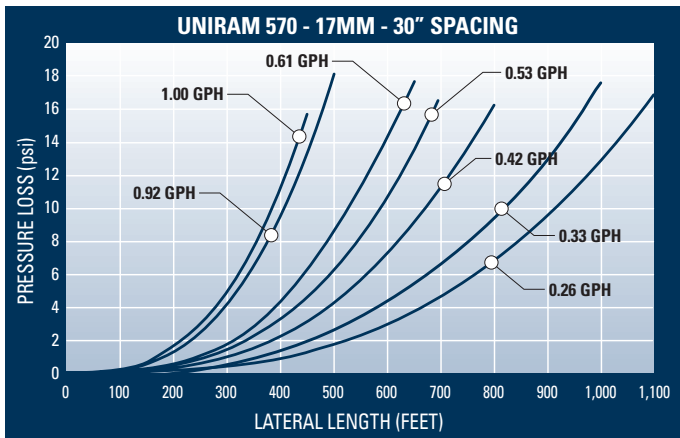
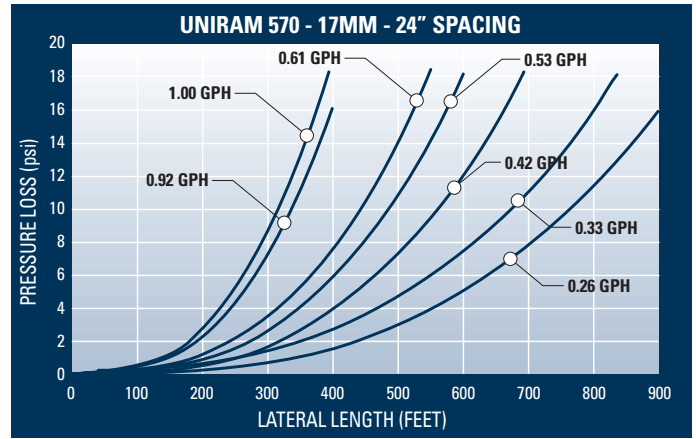
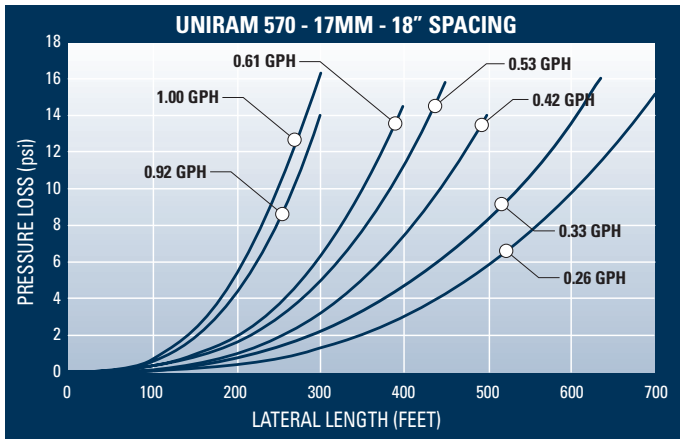
$$\begin{aligned} & \text{Line End Pressure* (10 psi)} \\ & + \text{Pressure Loss (derived from charts)} \\ & = \text{Inlet Pressure} \end{aligned}$$

\* Minimum pressure on lateral length end = 10 psi

**Example:**  
 UniRam .540"  
 400' Run  
 0.42 GPH Flow Rate  
 18" Spacing

	<b>10 psi</b> (end pressure)
	+ <b>11 psi</b> (from graph)
	<b>= 21 psi</b>

# UNIRAM .570" (17MM, 45 MIL) HEADLOSS AND LATERAL LENGTH



## EQUATION TO CALCULATE LATERAL LENGTH INLET PRESSURE

$$\begin{aligned} & \text{Line End Pressure* (10 psi)} \\ & + \text{Pressure Loss (derived from charts)} \\ & = \text{Inlet Pressure} \end{aligned}$$

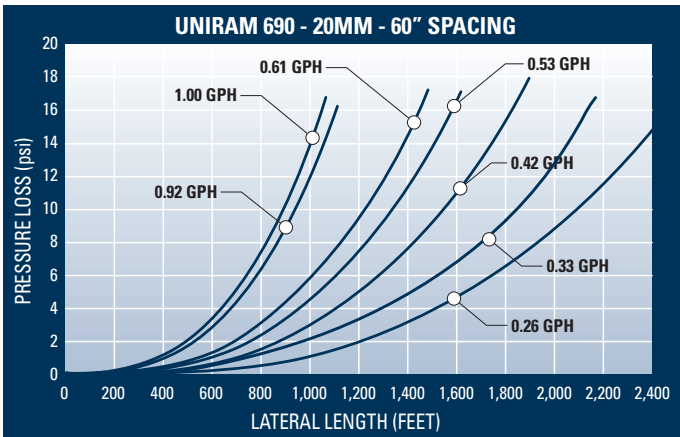
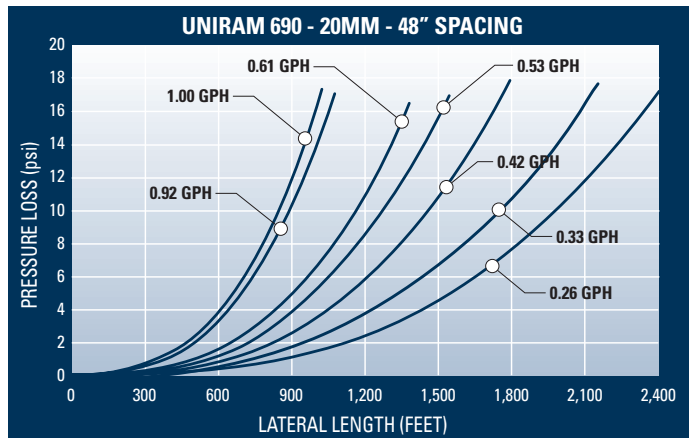
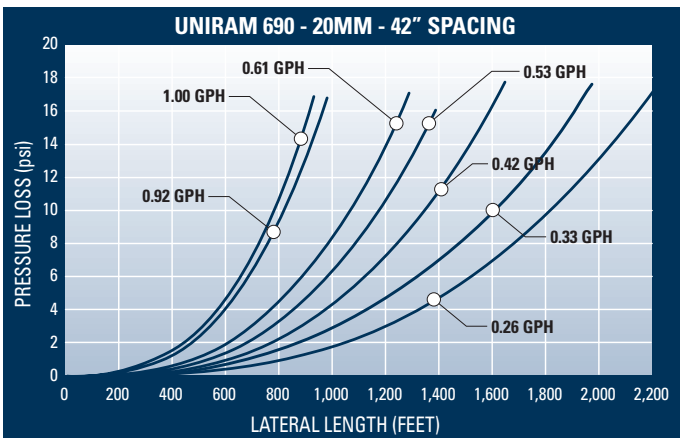
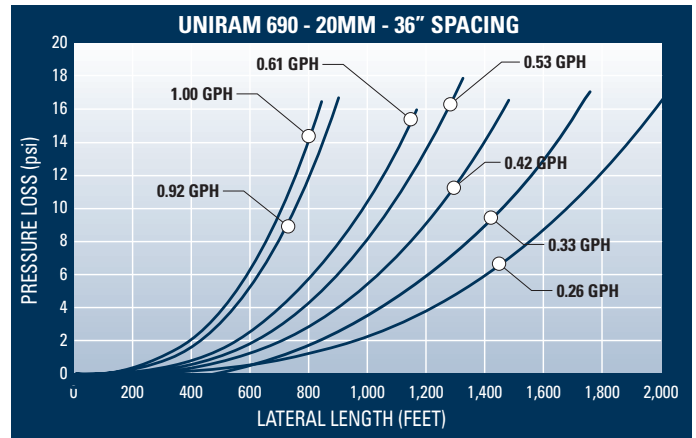
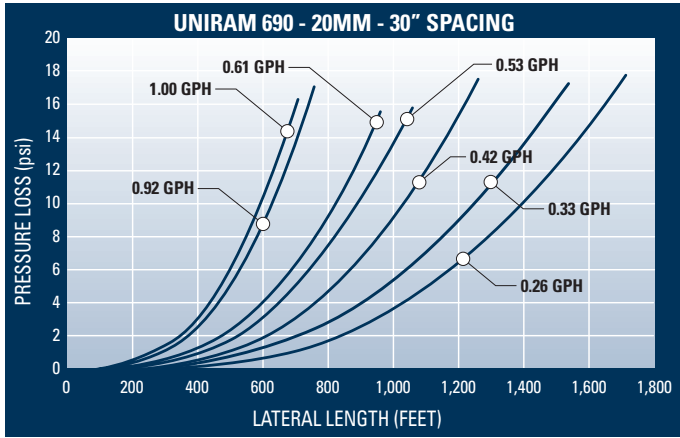
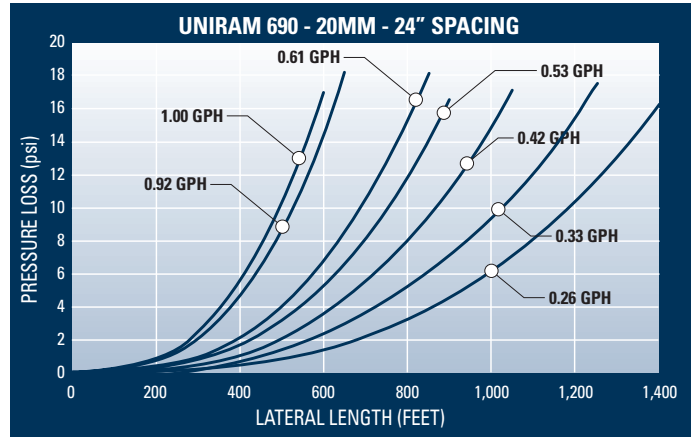
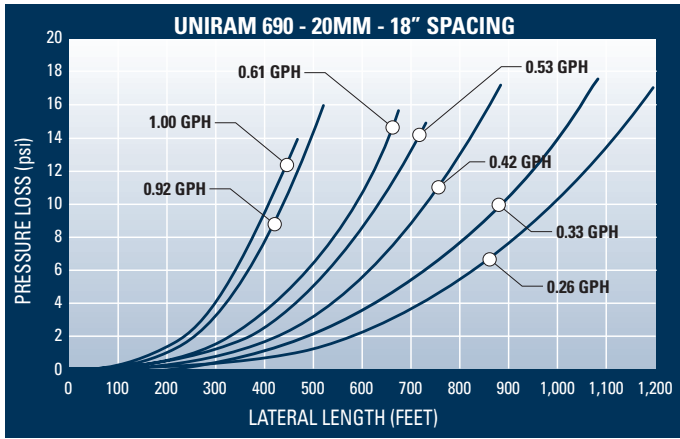
\* Minimum pressure on lateral length end = 10 psi

### Example:

UniRam .570"		<b>10 psi</b> (end pressure)
450' Run	+	<b>11 psi</b> (from graph)
0.42 GPH Flow Rate	=	<b>21 psi</b>
18" Spacing		



# UNIRAM .690" (20MM, 48 MIL) HEADLOSS AND LATERAL LENGTH



## EQUATION TO CALCULATE LATERAL LENGTH INLET PRESSURE

$$\begin{aligned} & \text{Line End Pressure* (10 psi)} \\ & + \text{Pressure Loss (derived from charts)} \\ & = \text{Inlet Pressure} \end{aligned}$$

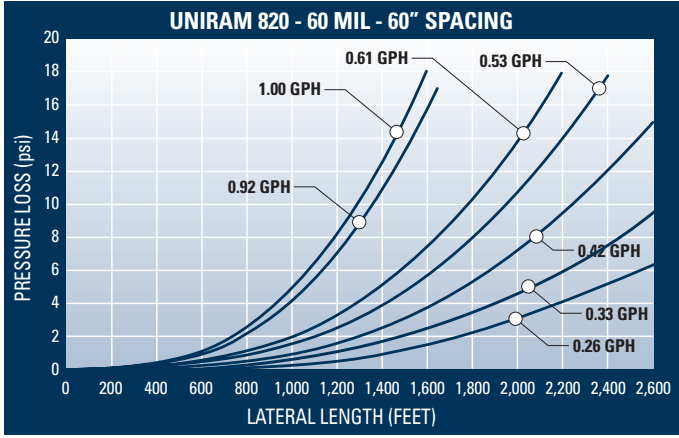
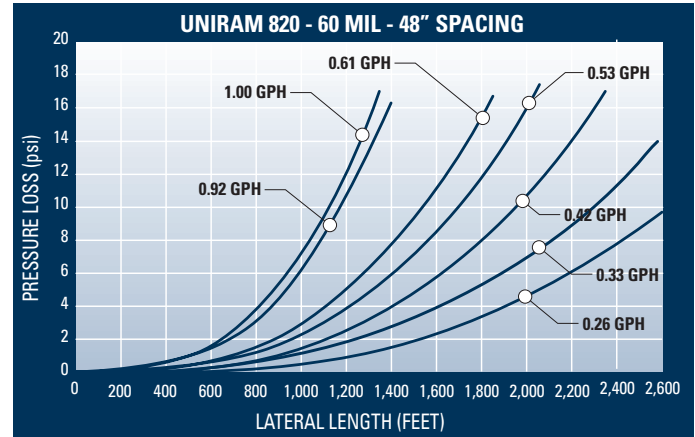
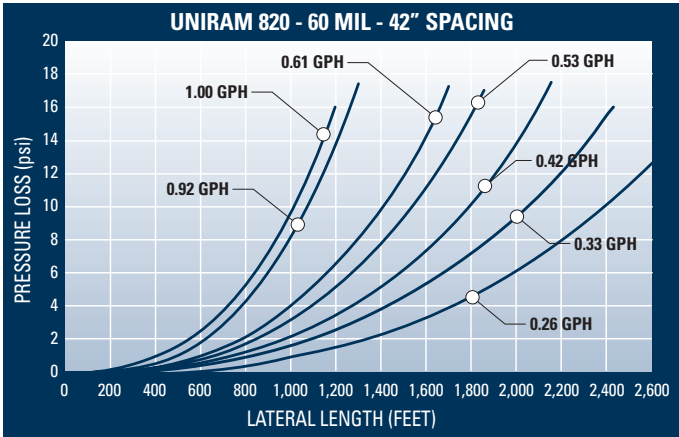
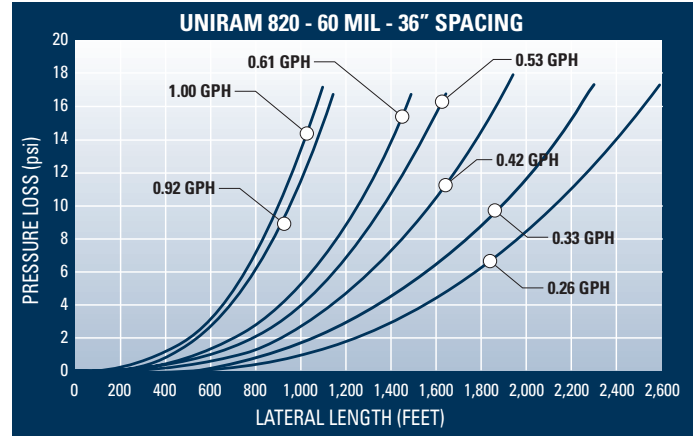
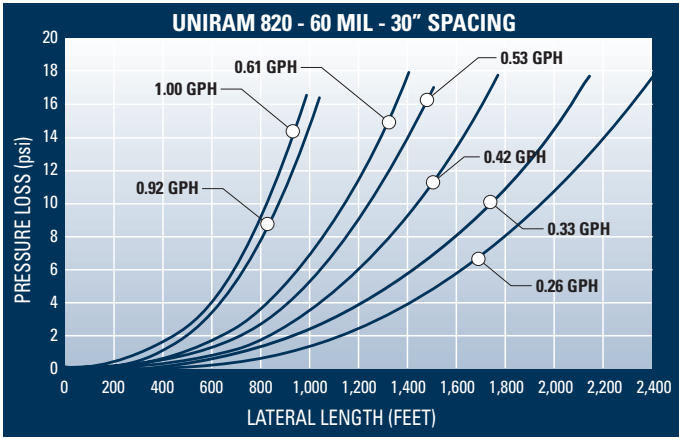
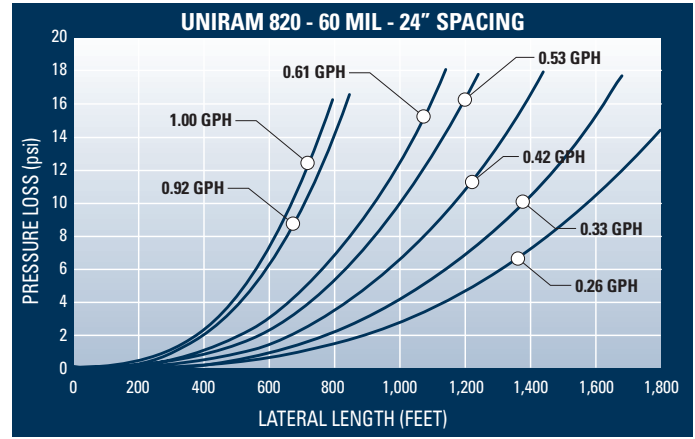
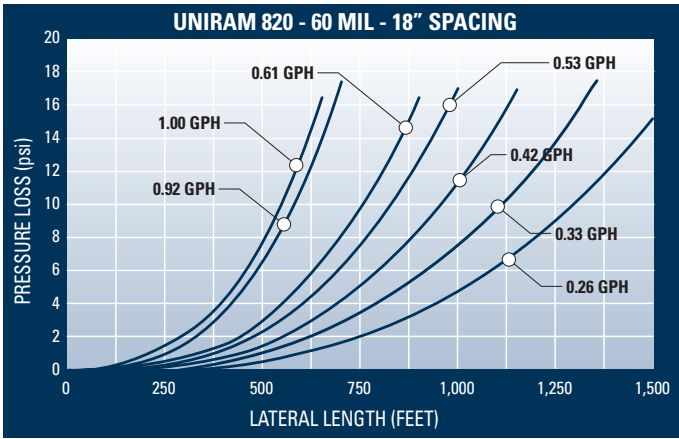
\* Minimum pressure on lateral length end = 10 psi

### Example:

UniRam .690"	<b>10 psi</b> (end pressure)
750' Run	+ <b>11 psi</b> (from graph)
0.42 GPH Flow Rate	= <b>21 psi</b>
18" Spacing	



# UNIRAM .820" (60 MIL) HEADLOSS AND LATERAL LENGTH



**Example:**

UniRam .820"  
980' Run  
0.42 GPH Flow Rate  
18" Spacing

**10 psi** (end pressure)  
+ **11 psi** (from graph)  
= **21 psi**



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