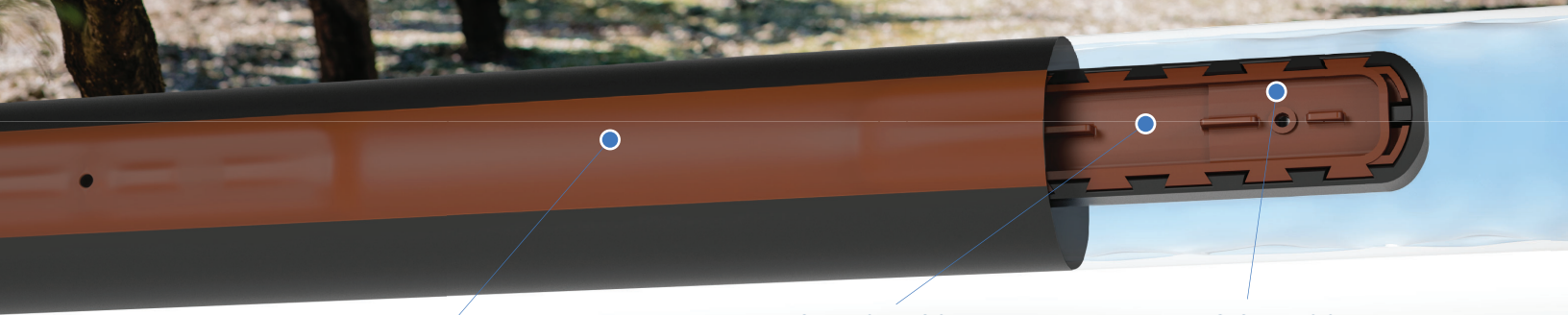# UNIRAM™ XRS HEAVYWALL DRIPLINE

**NEW CUPRON®
COPPER STRIPE**

**CUPRON® COPPER
EMITTER**

**PHYSICAL ROOT
INTRUSION BARRIER**

THE MOST ADVANCED PRESSURE COMPENSATING DRIPLINE
POWERED WITH CUPRON® COPPER OXIDE FOR THE ULTIMATE
PROTECTION AGAINST ROOT INTRUSION AND STRANGULATION

NETAFIM™
GROW MORE WITH LESS

UniRam XRS is the most advanced technology available today since its dripper design maximizes uniformity, making it the ultimate solution for subsurface applications. Embedded with Cupron Copper Oxide for an added layer of protection against roots.

APPLICATIONS
- For subsurface 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):
0.42, 0.61, 0.92

Common spacings:
18", 24", 30", 36", 42", 48", 60"
(Custom spacings also available)

Regulating pressure: 7 to 58 psi
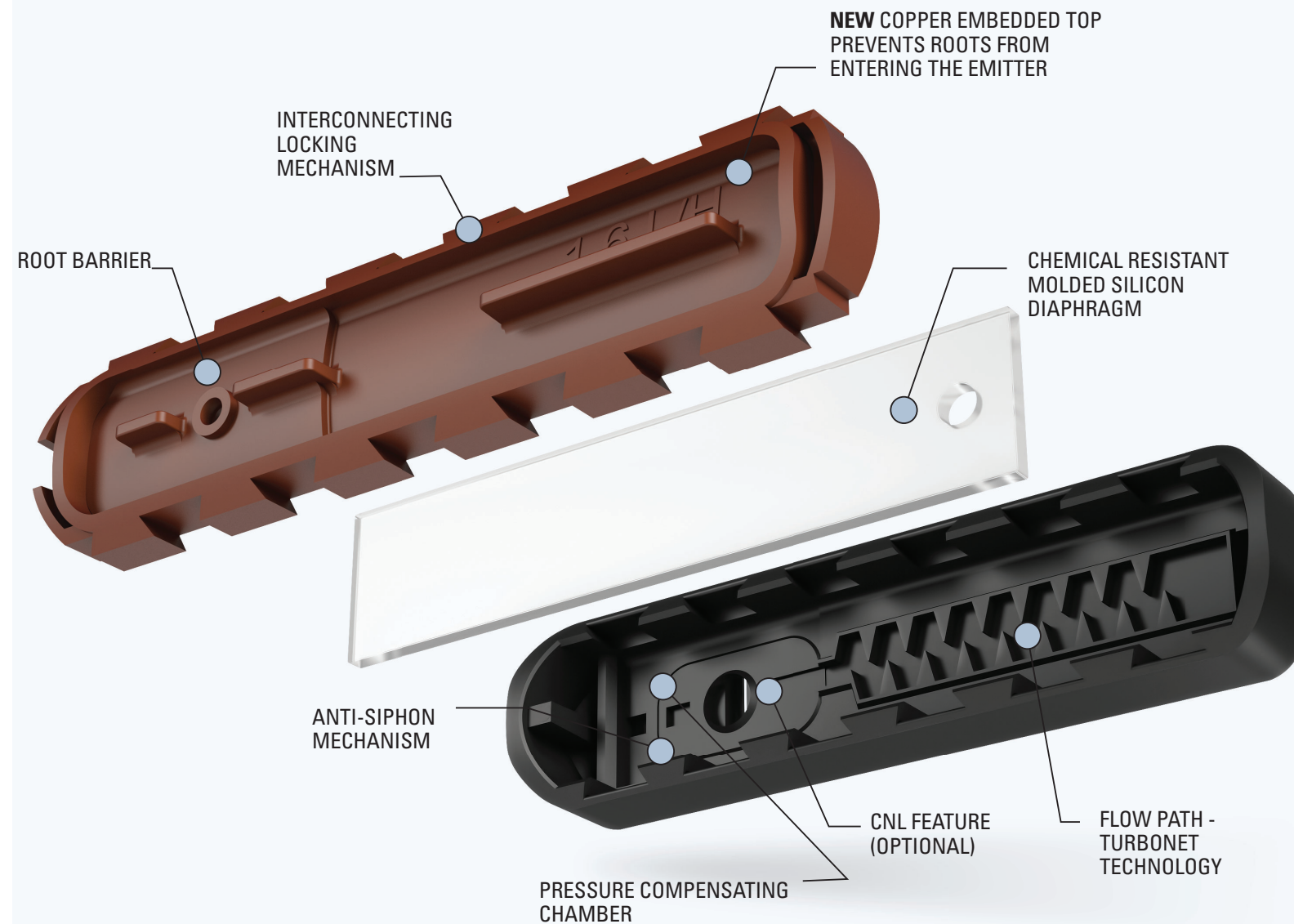
Recommended filtration: 80 mesh

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
0.42	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.

ADVANCED EMITTER DESIGN
FOR MAXIMUM CLOGGING RESISTANCE

INTERCONNECTING LOCKING MECHANISM

NEW COPPER EMBEDDED TOP PREVENTS ROOTS FROM ENTERING THE EMITTER

ROOT BARRIER

CHEMICAL RESISTANT MOLDED SILICON DIAPHRAGM

ANTI-SIPHON MECHANISM

CNL FEATURE (OPTIONAL)

FLOW PATH - TURBONET TECHNOLOGY

PRESSURE COMPENSATING CHAMBER

SUPERIOR PROTECTION OF YOUR DRIP IRRIGATION SYSTEM BY THE WORLD'S IRRIGATION LEADER.

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.
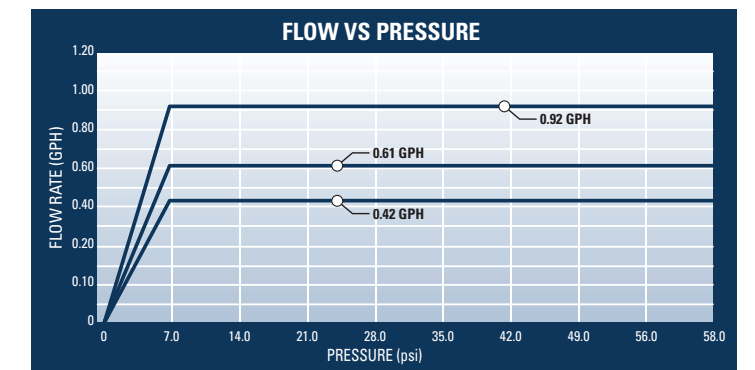
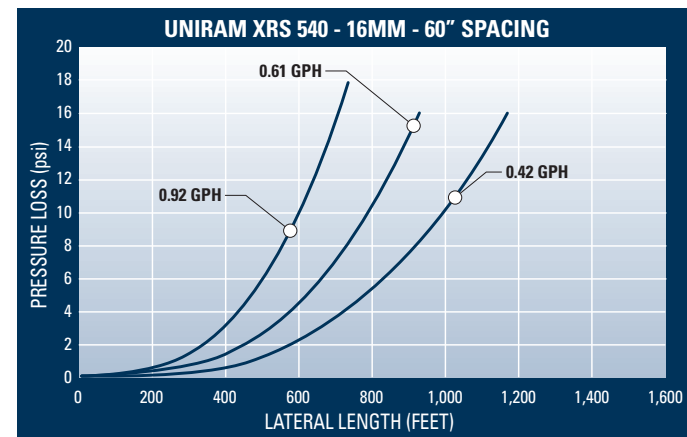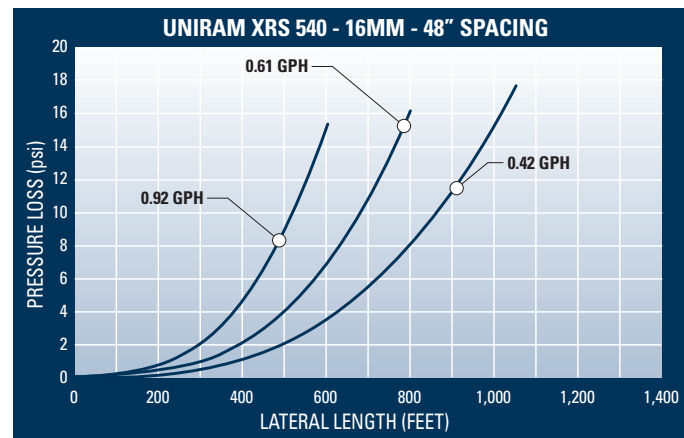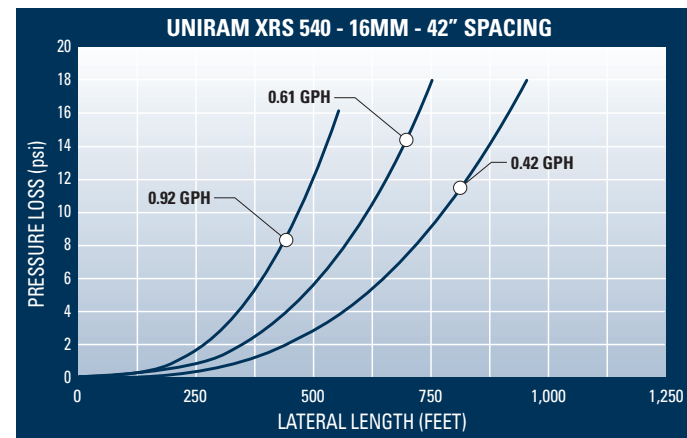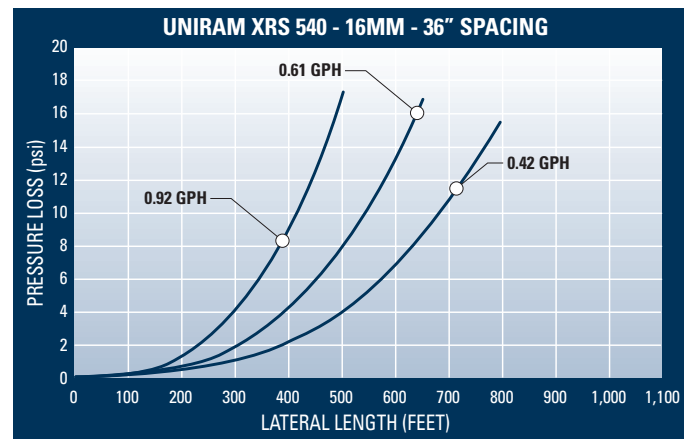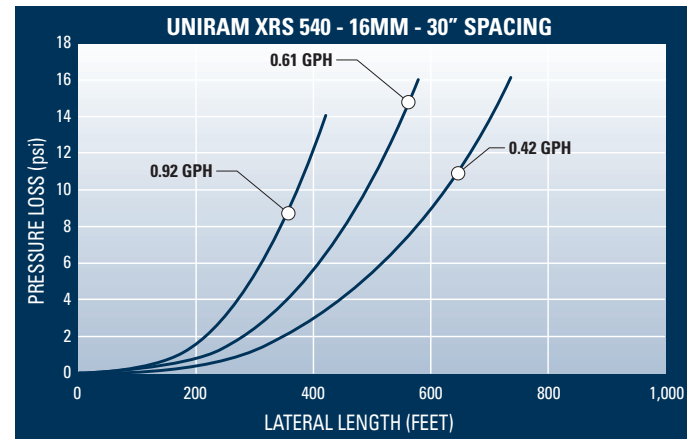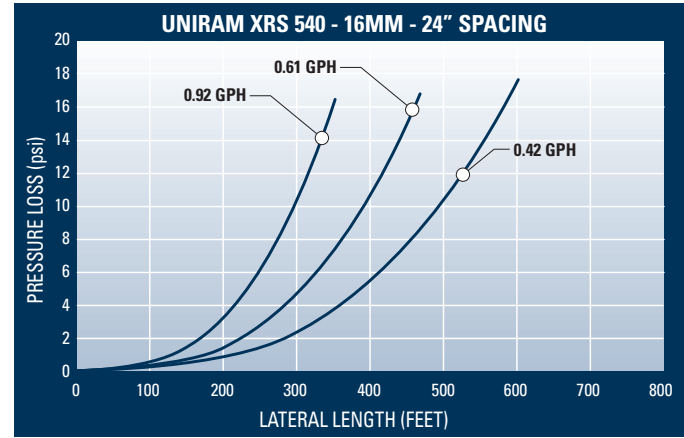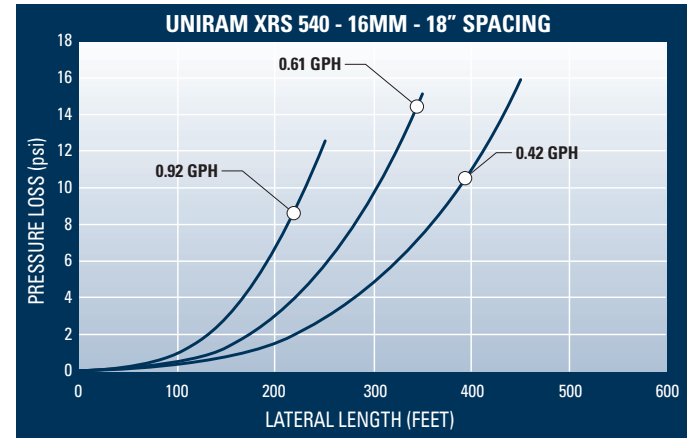**DIAPHRAGM**
Made of chemical-resistant silicon.

TURBONET

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.

FLOW VS PRESSURE

0.92 GPH
0.61 GPH
0.42 GPH

FLOW RATE (GPH): 1.20, 1.00, 0.80, 0.60, 0.40, 0.20, 0.10, 0

PRESSURE (psi): 0, 7.0, 14.0, 21.0, 28.0, 35.0, 42.0, 49.0, 56.0, 58.0
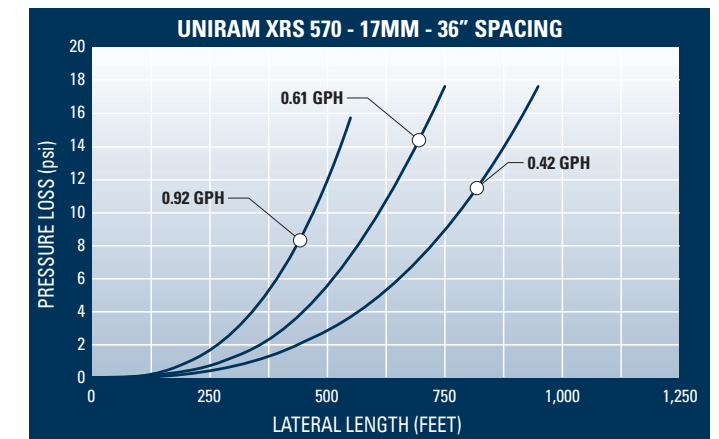
UNIRAM XRS .540" (16MM, 45 MIL) HEADLOSS AND LATERAL LENGTH

UNIRAM XRS 540 - 16MM - 18" SPACING

UNIRAM XRS 540 - 16MM - 24" SPACING

UNIRAM XRS 540 - 16MM - 30" SPACING

UNIRAM XRS 540 - 16MM - 36" SPACING

UNIRAM XRS 540 - 16MM - 42" SPACING

UNIRAM XRS 540 - 16MM - 48" SPACING

UNIRAM XRS 540 - 16MM - 60" SPACING

**EQUATION TO CALCULATE
LATERAL LENGTH INLET PRESSURE**

   Line End Pressure* (10 psi)
+ **Pressure Loss** (derived from charts)
= **Inlet Pressure**

* Minimum pressure on lateral length end = 10 psi

Example:

UniRam .540"		**10 psi** (end pressure)
400' Run	+	**11 psi** (from graph)
0.42 GPH Flow Rate	=	**21 psi**
18" Spacing		

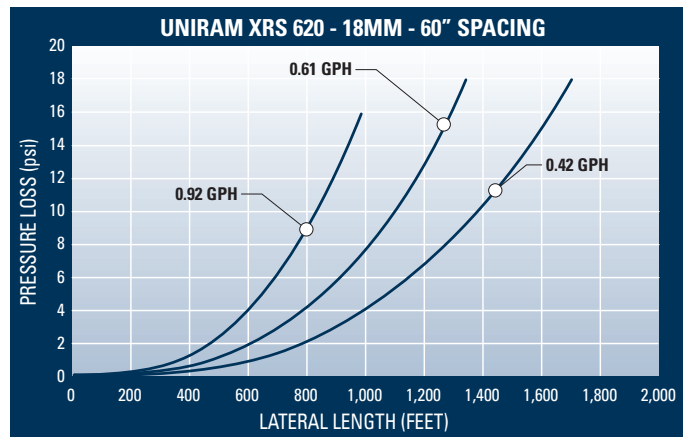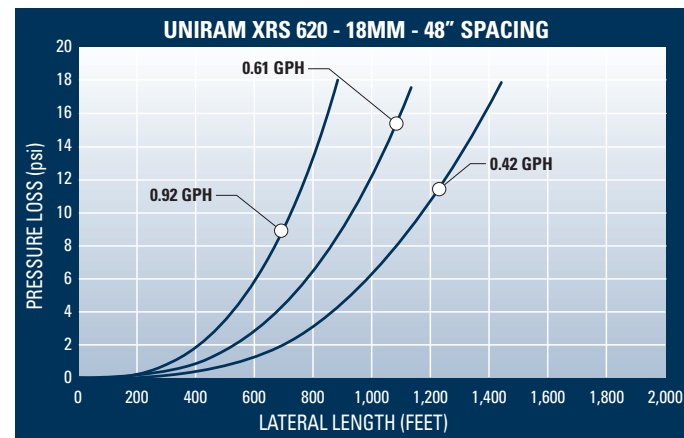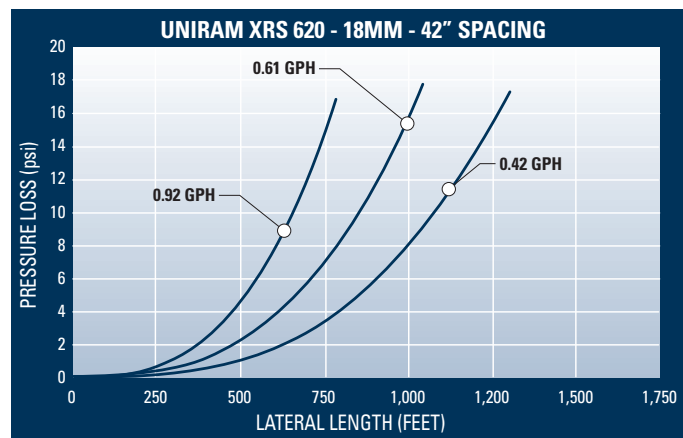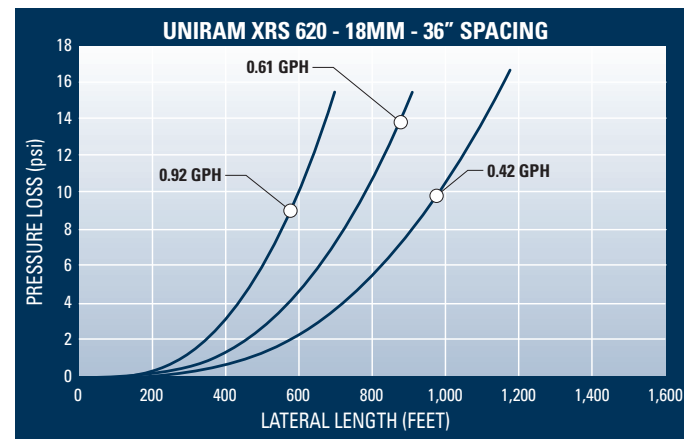## UNIRAM XRS .570" (17MM, 45 MIL) HEADLOSS AND LATERAL LENGTH
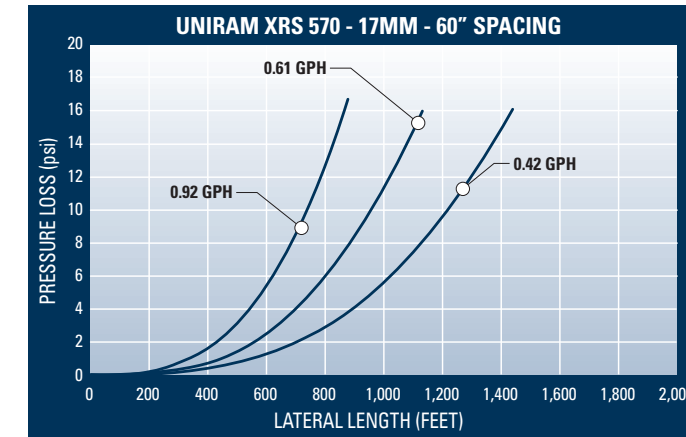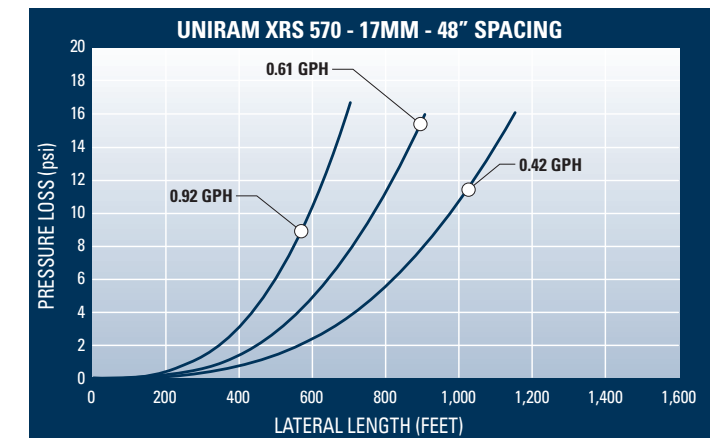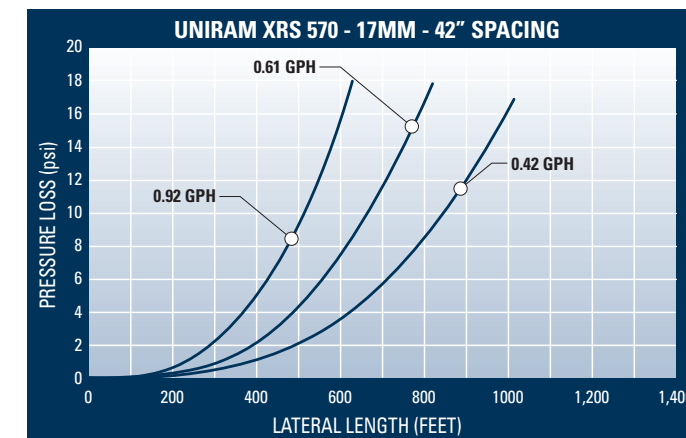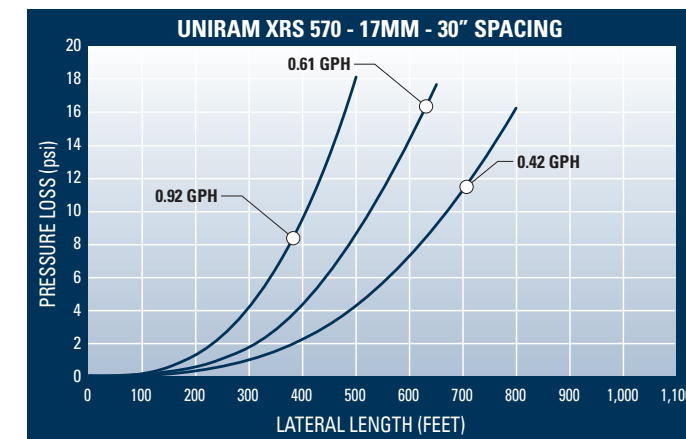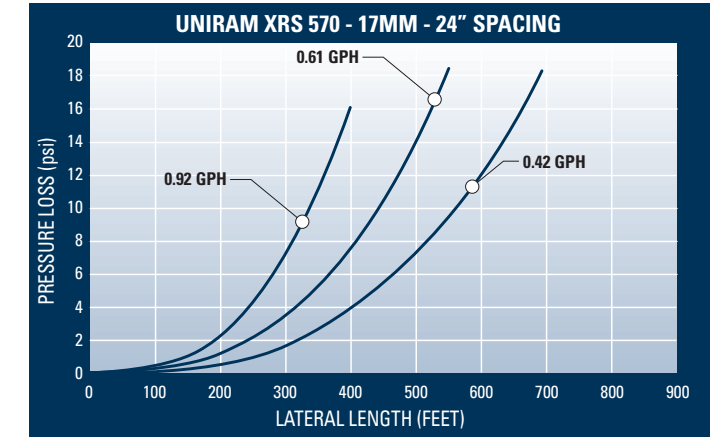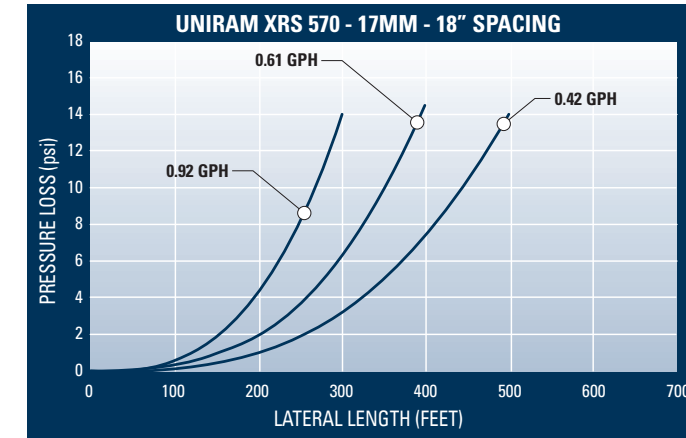
UNIRAM XRS 570 - 17MM - 18" SPACING

UNIRAM XRS 570 - 17MM - 24" SPACING

UNIRAM XRS 570 - 17MM - 30" SPACING

UNIRAM XRS 570 - 17MM - 36" SPACING

UNIRAM XRS 570 - 17MM - 42" SPACING

UNIRAM XRS 570 - 17MM - 48" SPACING

UNIRAM XRS 570 - 17MM - 60" SPACING

**EQUATION TO CALCULATE
LATERAL LENGTH INLET PRESSURE**

   Line End Pressure* (10 psi)
+ **Pressure Loss** (derived from charts)
= **Inlet Pressure**

* Minimum pressure on lateral length end = 10 psi

Example:

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

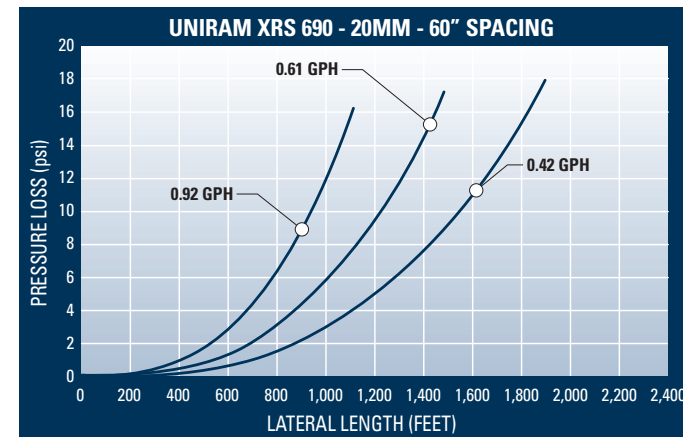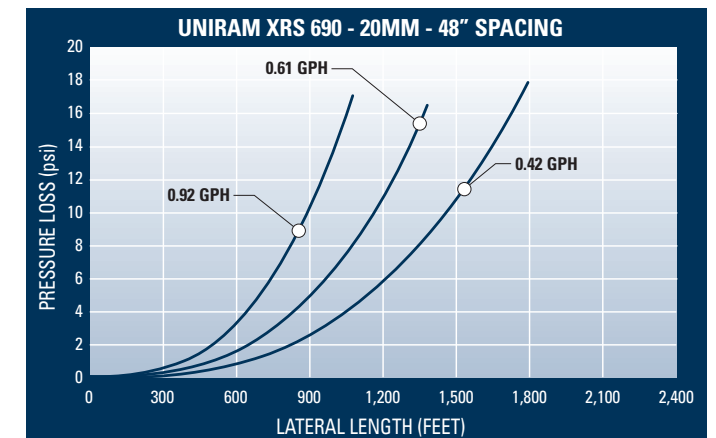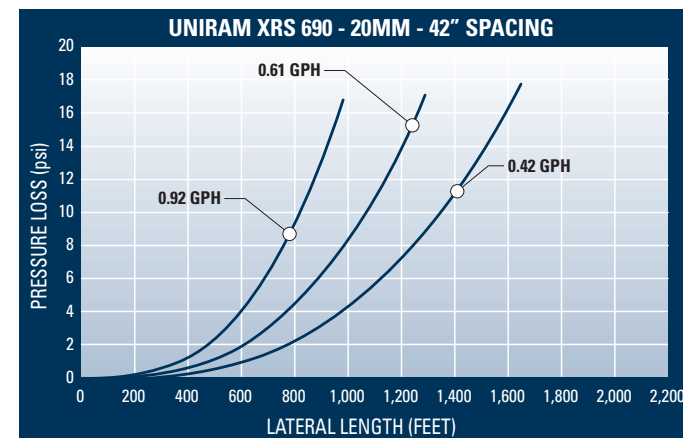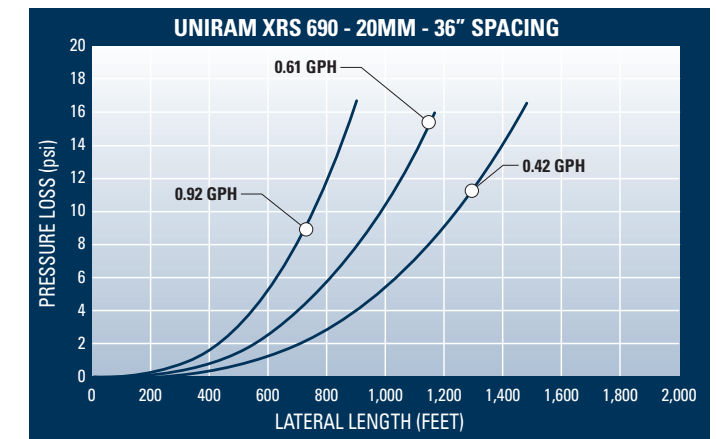# UNIRAM XRS .620" (18MM, 45 MIL) HEADLOSS AND LATERAL LENGTH
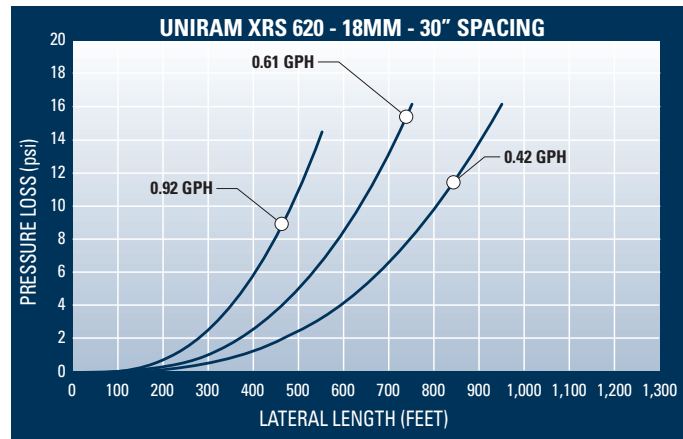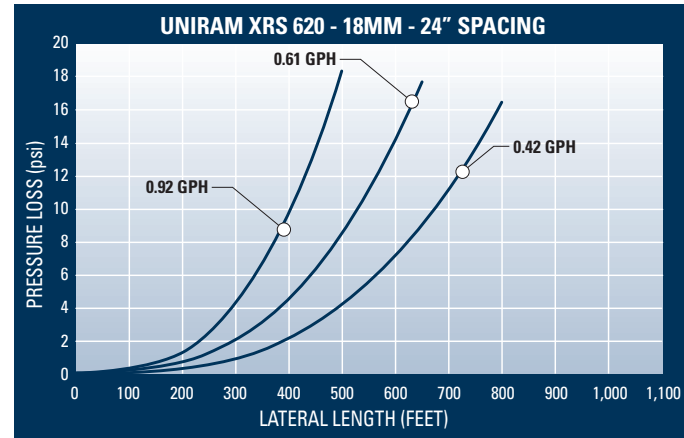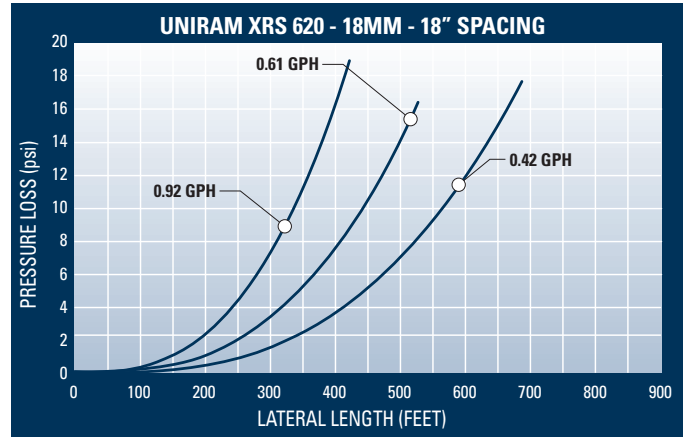
UNIRAM XRS 620 - 18MM - 18" SPACING

UNIRAM XRS 620 - 18MM - 24" SPACING

UNIRAM XRS 620 - 18MM - 30" SPACING

UNIRAM XRS 620 - 18MM - 36" SPACING

UNIRAM XRS 620 - 18MM - 42" SPACING

UNIRAM XRS 620 - 18MM - 48" SPACING

UNIRAM XRS 620 - 18MM - 60" SPACING

EQUATION TO CALCULATE LATERAL LENGTH INLET PRESSURE

    Line End Pressure* (10 psi)

  + **Pressure Loss** (derived from charts)

  = **Inlet Pressure**

* Minimum pressure on lateral length end = 10 psi

Example:

UniRam .620"		**10 psi** (end pressure)
575' Run	+	**11 psi** (from graph)
0.42 GPH Flow Rate	=	**21 psi**
18" Spacing		

UNIRAM XRS .690" (20MM, 48 MIL) HEADLOSS AND LATERAL LENGTH
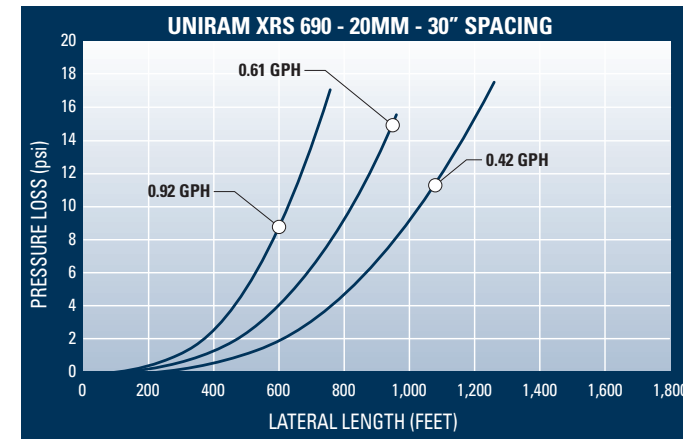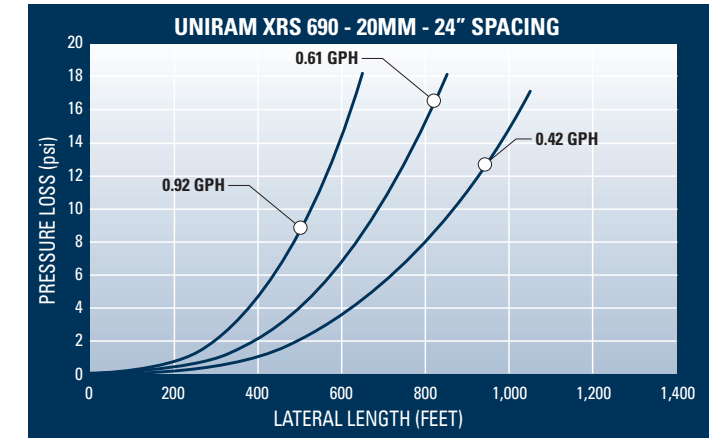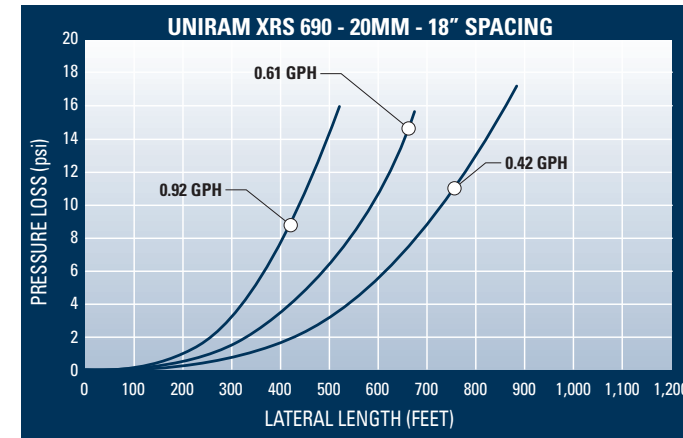
UNIRAM XRS 690 - 20MM - 18" SPACING

UNIRAM XRS 690 - 20MM - 24" SPACING

UNIRAM XRS 690 - 20MM - 30" SPACING

UNIRAM XRS 690 - 20MM - 36" SPACING

UNIRAM XRS 690 - 20MM - 42" SPACING

UNIRAM XRS 690 - 20MM - 48" SPACING

UNIRAM XRS 690 - 20MM - 60" SPACING

EQUATION TO CALCULATE LATERAL LENGTH INLET PRESSURE

    Line End Pressure* (10 psi)

  + **Pressure Loss** (derived from charts)

  = **Inlet Pressure**

* Minimum pressure on lateral length end = 10 psi

Example:

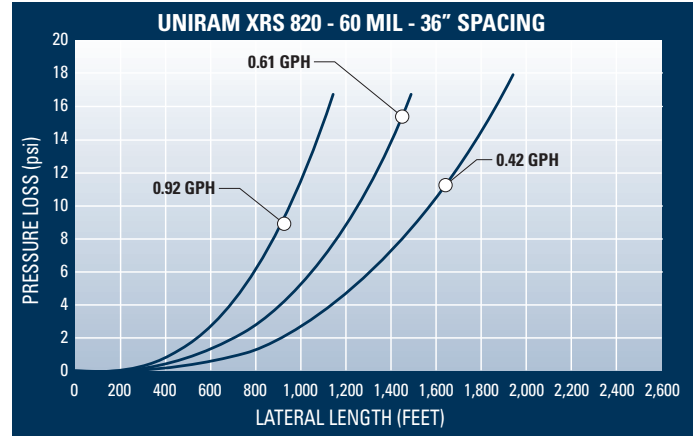| UniRam .690"		**10 psi** (end pressure)
750' Run	+	**11 psi** (from graph)
0.42 GPH Flow Rate	=	**21 psi**
18" Spacing		

UNIRAM .820" (60 MIL) HEADLOSS AND LATERAL LENGTH
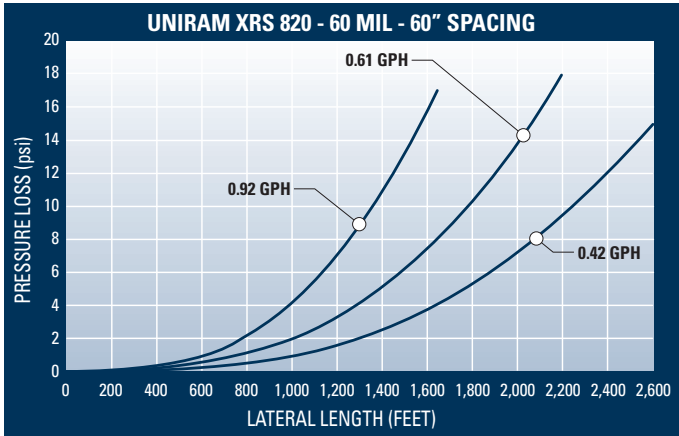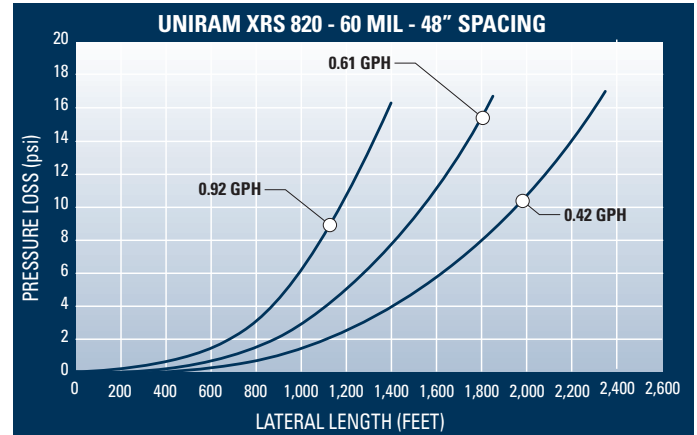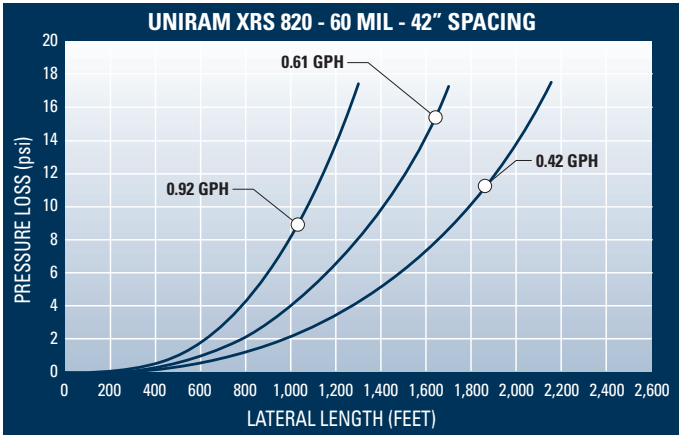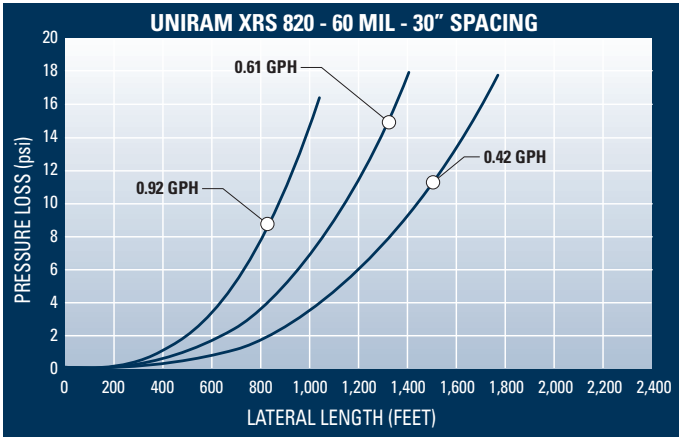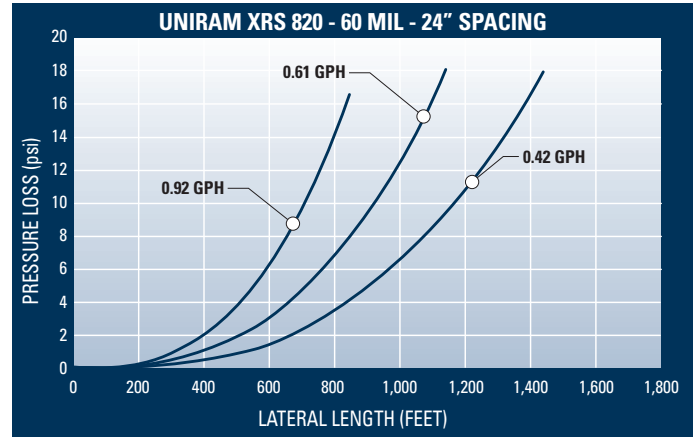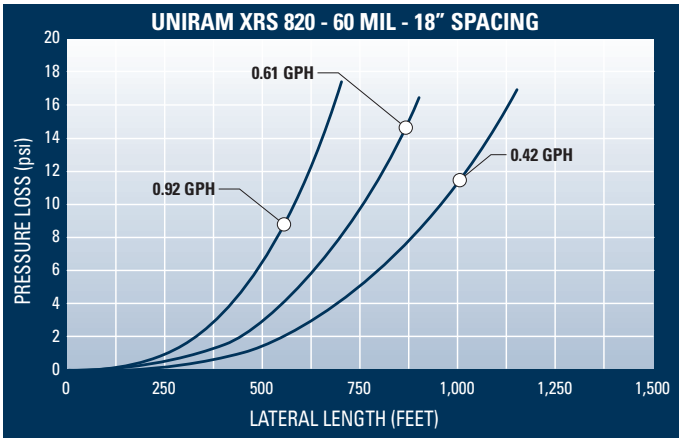
UNIRAM XRS 820 - 60 MIL - 18" SPACING

UNIRAM XRS 820 - 60 MIL - 24" SPACING

UNIRAM XRS 820 - 60 MIL - 30" SPACING

UNIRAM XRS 820 - 60 MIL - 36" SPACING

UNIRAM XRS 820 - 60 MIL - 42" SPACING

UNIRAM XRS 820 - 60 MIL - 48" SPACING

UNIRAM XRS 820 - 60 MIL - 60" SPACING

Example:

UniRam .820"		**10 psi** (end pressure)
980' Run	+	**11 psi** (from graph)
0.42 GPH Flow Rate	=	**21 psi**
18" Spacing		

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