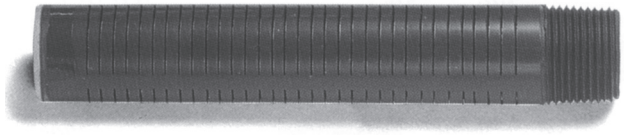
PVC Slotted Laterals

MACHINED LATERALS

All SWT laterals are cut-to-length and NPT threaded to match standard PVC or stainless steel hubs. One end is threaded MNPT, the other end is closed with a flat end-plug. SCH. 80 PVC pipe with 0.010 slots are standard. Other materials and slot sizes are available including: SCH. 40, SDR, CPVC, PolyPro, PVDF with 0.012 or 0.020 slots. Always use a proper underbedding.



Lateral Sizing Formula:
To accurately determine the length of a lateral, you must know the tank inner diameter and the hub outer diameter. The formula is as follows:

$$\left(\frac{\text{tank diameter - hub diameter}}{2}\right) - 1 = \text{lateral length}$$

Standard Machined Lateral Sizes

Part Number	Length Inches	Pipe Diameter	Material	Slot Size Inches	Slot Rows
SM-L80504510	4.5	1/2" (0.840 OD x 0.528 ID)	SCH. 80	0.010	3
SM-L87504510	4.5	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8750610	6	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L87506510	6.5	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8750710	7	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8750810	8	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8750910	9	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8751010	10	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8751210	12	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8751310	13	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8751510	15	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8751710	17	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8751810	18	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8752010	20	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L8752110	21	3/4" (1.050 OD x 0.724 ID)	SCH. 80	0.010	3
SM-L811510**	15	1" (1.315 OD x 0.935 ID)	SCH. 80	0.010	3
SM-L811810**	18	1" (1.315 OD x 0.935 ID)	SCH. 80	0.010	3
SM-L812010**	20	1" (1.315 OD x 0.935 ID)	SCH. 80	0.010	3
SM-L812310**	23	1" (1.315 OD x 0.935 ID)	SCH. 80	0.010	3
SM-L812610**	26	1" (1.315 OD x 0.935 ID)	SCH. 80	0.010	3
SM-L8125121065	12	1.25" (1.660 OD x 1.256 ID)	SCH. 80	0.010	3
SM-L8125151068*	15	1.25" (1.660 OD x 1.256 ID)	SCH. 80	0.010	3
SM-L8125151096	15	1.25" (1.660 OD x 1.256 ID)	SCH. 80	0.010	3
SM-L81251810102	18	1.25" (1.660 OD x 1.256 ID)	SCH. 80	0.010	3
SM-L81252010136	20	1.25" (1.660 OD x 1.256 ID)	SCH. 80	0.010	3

* Non-standard 3/16 inch spacing between slots.
** Non-stock items – made to order.

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MEMBER Water Quality ASSOCIATION
FORM 1228
EFFECTIVE
NOVEMBER 2004

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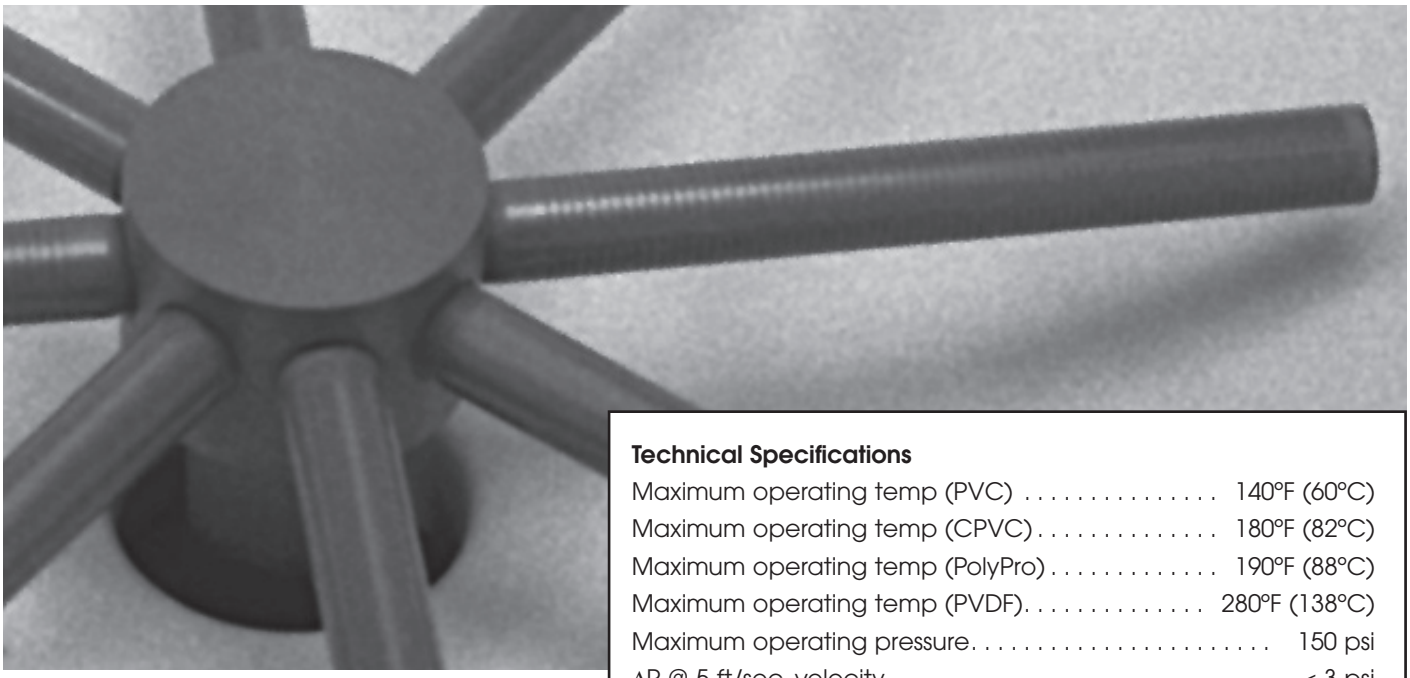

Technical Specifications

Maximum operating temp (PVC)	140ºF (60ºC)
Maximum operating temp (CPVC)	180ºF (82ºC)
Maximum operating temp (PolyPro)	190ºF (88ºC)
Maximum operating temp (PVDF)	280ºF (138ºC)
Maximum operating pressure	150 psi
ΔP @ 5 ft/sec. velocity	≤ 3 psi
Slot width (standard)	0.010" (0.254 mm)
Available slot widths	0.006, 0.012, 0.020, 0.032, 0.125

Safe Water Technologies standard PVC laterals are fabricated from Schedule 80 PVC pipe. Stocked diameters include 1/2", 3/4", and 1-1/4". Also available are pipe diameters of 1", 1-1/2", and 2". One end is threaded MNPT. The other end is closed with a flat end plug.

Generally, 3/4" diameter laterals up to 5" long receive 1/16" spacing between slots; from 5" to 8" long receive 1/8" spacing; and over 8" long receive 3/16" spacing. Laterals with 1-1/4" diameter typically receive 1/8" spacing between slots. Laterals 1-1/2" in diameter and smaller are slotted in three rows. Laterals 2" in diameter and larger have four rows of slots. To minimize pressure loss when in service, the open area of slots is engineered to be equal to or greater than 1-1/2 times the cross sectional open area of the pipe.

Standard slot widths are 0.010", 0.012", and 0.020. Other slot widths, including 0.006", 0.008", 0.016", 0.032", and 0.125", are available for a nominal extra fee. Laterals are available in plastics other than Schedule 80 PVC, including Schedule 40 PVC, SDR, CPVC, polypropylene, teflon, and PVDF. Contact your SWT sales representative to discuss custom sizes, configurations, materials, and lead times.

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