



LXT PIPE

Harvel LXT™ piping systems provide a cost-effective alternative to other piping materials typically used for ultra-pure water applications in the semiconductor, electronics, biotechnology and other industries. Lower material costs combined with fast, reliable installation greatly reduce installation costs – resulting in significant savings without jeopardizing water quality.

In addition to significant cost savings, Harvel LXT piping systems offer several other advantages for ultra-pure water applications. These include: non-contaminating material with extremely low-extractable contaminants (particularly Total Oxidizable Carbon and trace metals), ultra-smooth interior walls, strong Schedule 80 dimensions, specialty one-step solvent-cement joining system that cures fast, and unique translucency for visual inspection of joint integrity.

Harvel LXT Piping Systems offer unique advantages for many ultra-pure water applications.

Stock items are normally shipped the same day. Non-stock items will usually ship in five days or less. Our goal is to maintain the fastest order turnaround anywhere.

- Complete line of pipe, fittings and valves IPS Sizes 1/2" – 4" diameters
- Strong Schedule 80 dimensions for pressure service
- Advanced Harvel LXT (low-extractable) material significantly reduces leachable contamination compared to conventional PVC and other piping materials.
- Exceptionally smooth interior walls reduce particle contaminants
- Fast, reliable installation with simple, inexpensive joining methods
- Proprietary one-step fast setting joining method reduces TOC contamination and rinses up quickly
- Good chemical/corrosion resistance, high-impact strength, low thermal conductivity
- Bagged, sealed and boxed on-line for use in high-purity environments
- High Quality
- Low Maintenance
- Cost Effective

Materials

Harvel LXT piping is produced from an innovative PVC compound that has been specifically formulated to reduce leachable contamination when exposed to ultra-pure water environments. Minor ingredients necessary for processing have been scrupulously selected to address their potential for contamination, and are then

carefully blended in precise ratios. This results in a much cleaner material than conventional PVC compounds, and compares favorably to alternate materials typically used for UPW piping applications. This has been validated with extensive static and dynamic leach studies during exposure to 18.2 megohm ultra-pure water conducted by a reputable third party. Refer to Table I and Table II for comparative evaluation of leachable contaminants obtained from common UPW piping materials.

Processing

Processing conditions for the converting this material into pipe form are as critical as the selection of the material itself to ensure that the physical properties of the finished product are optimized. Correct processing techniques ensure proper dispersion and fusion of the compound, resulting in a homogenous melt with uniform properties. Great care is also taken during this process using proprietary techniques to address surface finish characteristics. Optimizing processing conditions and providing smooth internal surfaces greatly reduces the potential for extractable and particle contaminants.

Harvel LXT pipe is cut square, purged to remove shavings, sealed in polybags and boxed on-line at time of manufacture to minimize contamination. Contact Harvel for availability of additional cleaning options.

Joining

The Harvel LXT system utilizes a one-step solvent-cementing system specifically formulated for use with this product. Unlike conventional PVC solvent cements, this system contains fewer contaminants and cures quickly, reducing the potential for TOC contamination. Joining is accomplished quickly and efficiently utilizing inexpensive tools, thereby greatly reducing labor and installation costs.

Physical Properties

Although the extractable contaminants of Harvel LXT are much lower than common PVC piping, Harvel LXT has physical properties very similar to those of conventional PVC piping. As a result, Harvel LXT products exhibit the well-known physical characteristics and other benefits of conventional PVC piping, such as good chemical and corrosion resistance, low thermal conductivity, high strength-to-weight ratio, good impact resistance, and ease of installation.

Pipe

ITEM	DESCRIPTION
81005005	1/2 LXT SCH80 PIPE X 15' PE
81005007	3/4 LXT SCH80 PIPE X 15' PE
81005010	1 LXT SCH80 PIPE X 15' PE
81005012	1-1/4 LXT SCH80 PIPE X 15' PE
81005015	1-1/2 LXT SCH80 PIPE X 15' PE
81005020	2 LXT SCH80 PIPE X 15' PE
81005030	3 LXT SCH80 PIPE X 15' PE
81005040	4 LXT SCH80 PIPE X 15' PE

Tee

ITEM	DESCRIPTION
81801005	1/2 LXT SCH80 TEE SSS
81801007	3/4 LXT SCH80 TEE SSS
81801010	1 LXT SCH80 TEE SSS
81801012	1-1/4 LXT SCH80 TEE SSS
81801015	1-1/2 LXT SCH80 TEE SSS
81801020	2 LXT SCH80 TEE SSS
81801030	3 LXT SCH80 TEE SSS
81801040	4 LXT SCH80 TEE SSS
81801131	1 X 3/4 LXT SCH80 TEE SSS
81801211	1-1/2 X 1 LXT SCH80 TEE SSS
81801249	2 X 1 LXT SCH80 TEE SSS
81801251	2 X 1-1/2 LXT SCH80 TEE SSS
81801338	3 X 2 LXT SCH80 TEE SSS
81801422	4 X 3 LXT SCH80 TEE SSS

90° Ell

ITEM	DESCRIPTION
81806005	1/2 LXT SCH80 90 ELL SS
81806007	3/4 LXT SCH80 90 ELL SS
81806010	1 LXT SCH80 90 ELL SS
81806012	1-1/4 LXT SCH80 90 ELL SS
81806015	1-1/2 LXT SCH80 90 ELL SS
81806020	2 LXT SCH80 90 ELL SS
81806030	3 LXT SCH80 90 ELL SS
81806040	4 LXT SCH80 90 ELL SS

45° Ell

ITEM	DESCRIPTION
81817005	1/2 LXT SCH80 45 ELL SS
81817007	3/4 LXT SCH80 45 ELL SS
81817010	1 LXT SCH80 45 ELL SS
81817012	1-1/4 LXT SCH80 45 ELL SS
81817015	1-1/2 LXT SCH80 45 ELL SS
81817020	2 LXT SCH80 45 ELL SS
81817030	3 LXT SCH80 45 ELL SS
81817040	4 LXT SCH80 45 ELL SS

IRRIGATION

INDUSTRIAL



8100 SCHEDULE 80 LXT PIPE & FITTINGS

IRRIGATION

Coupling

ITEM	DESCRIPTION
81829005	1/2 LXT SCH80 COUPLING SS
81829007	3/4 LXT SCH80 COUPLING SS
81829010	1 LXT SCH80 COUPLING SS
81829012	1-1/4 LXT SCH80 COUPLING SS
81829015	1-1/2 LXT SCH80 COUPLING SS
81829020	2 LXT SCH80 COUPLING SS
81829030	3 LXT SCH80 COUPLING SS
81829040	4 LXT SCH80 COUPLING SS
81829101	3/4X1/2 LXT SCH80 COUPLING SS
81829131	1 X 3/4 LXT SCH80 COUPLING SS
81829168	1-1/4X1 LXT SCH80 COUPLING SS
81829211	1-1/2X1 LXT SCH80 COUPLING SS
81829212	1-1/2X1-1/4 LXT SCH80 CPLG SS
81829249	2 X 1 LXT SCH80 COUPLING SS
81829251	2X1-1/2 LXT SCH80 COUPLING SS
81829338	3 X 2 LXT SCH80 COUPLING SS
81829420	4 X 2 LXT SCH80 COUPLING SS
81829422	4 X 3 LXT SCH80 COUPLING SS

Female Adapter

ITEM	DESCRIPTION
81835005	1/2 LXT SCH80 FE ADPT W/SSR
81835007	3/4 LXT SCH80 FE ADPT W/SSR
81835010	1 LXT SCH80 FE ADPT W/SSR
81835012	1-1/4 LXT SCH80 FE ADPT W/SSR
81835015	1-1/2 LXT SCH80 FE ADPT W/SSR
81835020	2 LXT SCH80 FE ADPT W/SSR
81835030	3 LXT SCH80 FE ADPT W/SSR
81835040	4 LXT SCH80 FE ADPT W/SSR

Male Adapter

ITEM	DESCRIPTION
81836005	1/2 LXT SCH80 MALE ADPT T X S
81836007	3/4 LXT SCH80 MALE ADPT T X S
81836010	1 LXT SCH80 MALE ADPT T X S
81836012	1-1/4 LXT SCH80 MALE ADPT TXS
81836015	1-1/2 LXT SCH80 MALE ADPT TXS
81836020	2 LXT SCH80 MALE ADPT T X S
81836030	3 LXT SCH80 MALE ADPT T X S
81836040	4 LXT SCH80 MALE ADPT T X S

Reducing Bushing

ITEM	DESCRIPTION
81837101	3/4 X 1/2 LXT SCH80 R/BUSH SS
81837131	1 X 3/4 LXT SCH80 R/BUSH SS
81837166	1-1/4X1/2 LXT SCH80 R/BUSH SS
81837168	1-1/4X1 LXT SCH80 R/BUSH SS
81837210	1-1/2X3/4 LXT SCH80 R/BUSH SS
81837211	1-1/2 X 1 LXT SCH80 R/BUSH SS
81837212	1-1/2X1-1/4 LXT SCH80 R/BUSH SS
81837249	2 X 1 LXT SCH80 R/BUSH SS
81837251	2 X 1-1/2 LXT SCH80 R/BUSH SS
81837338	3 X 2 LXT SCH80 R/BUSH SS
81837422	4 X 3 LXT SCH80 R/BUSH SS
81838072	1/2 X 1/4 LXT SCH80 R/BUSH ST
81838101	3/4 X 1/2 LXT SCH80 R/BUSH ST
81838130	1 X 1/2 LXT SCH80 R/BUSH ST
81838131	1 X 3/4 LXT SCH80 R/BUSH ST

Cap (Slip)

ITEM	DESCRIPTION
81847005	1/2 LXT SCH80 CAP SLIP
81847007	3/4 LXT SCH80 CAP SLIP
81847010	1 LXT SCH80 CAP SLIP
81847012	1-1/4 LXT SCH80 CAP SLIP
81847015	1-1/2 LXT SCH80 CAP SLIP
81847020	2 LXT SCH80 CAP SLIP
81847030	3 LXT SCH80 CAP SLIP
81847040	4 LXT SCH80 CAP SLIP

Flange (Slip)

ITEM	DESCRIPTION
81854005	1/2 LXT SCH80 V.S. FLANGE SLIP
81854007	3/4 LXT SCH80 V.S. FLANGE SLIP
81854010	1 LXT SCH80 V.S. FLANGE SLIP
81854012	1-1/4 LXT SCH80 V.S. FLANGE SL
81854015	1-1/2 LXT SCH80 V.S. FLANGE SL
81854020	2 LXT SCH80 V.S. FLANGE SLIP
81854030	3 LXT SCH80 V.S. FLANGE SLIP
81854040	4 LXT SCH80 V.S. FLANGE SLIP

Union (Viton)

ITEM	DESCRIPTION
81857005	1/2 LXT SCH80 UNION VITON SS
81857007	3/4 LXT SCH80 UNION VITON SS
81857010	1 LXT SCH80 UNION VITON SS
81857012	1-1/4 LXT SCH80 UNION VITON SS
81857015	1-1/2 LXT SCH80 UNION VITON SS
81857020	2 LXT SCH80 UNION VITON SS

Union (EPDM)

ITEM	DESCRIPTION
81897005	1/2 LXT SCH80 UNION EPDM SS
81897007	3/4 LXT SCH80 UNION EPDM SS
81897010	1 LXT SCH80 UNION EPDM SS
81897012	1-1/4 LXT SCH80 UNION EPDM SS
81897015	1-1/2 LXT SCH80 UNION EPDM SS
81897020	2 LXT SCH80 UNION EPDM SS

One-Step Cement

Available in pint or quart.

Application:

Harvel LXT one-step cement shall be applied to the joining surfaces using a dauber or natural-bristle brush approximately half the diameter of the pipes being joined. Working quickly, apply a heavy, even coat of solvent cement to the pipe end on the surface equal to the depth of the fitting socket. Apply a light coat to the fitting socket. If there was little interference during the dry fit, apply a second coat of cement to the pipe end at this time. Great care must be used to prevent cement from coming into contact with the interior waterway of the fitting or pipe.

ITEM	DESCRIPTION
81900040	PT LXT ONE-STEP CEMENT W/DAUBR
81900050	QT LXT ONE-STEP CEMENT W/DAUBR

Ball Valves

LXT quarter-turn true union ball valves incorporate the same high degree of unique engineering design characteristics. Among these characteristics are heavy bodied construction with strong buttress threads, full Schedule 80 bore to minimize pressure drop, PTFE floating seat design to minimize seat wear, EPDM or Vitor® o-ring seals, Safe-T-Shear® stem, socket and threaded-end connectors, and true union design for ease of installation and maintenance.

ITEM	DESCRIPTION
81020005	1/2 LXT SCH80 TUBV-E S/T
81020007	3/4 LXT SCH80 TUBV-E S/T
81020010	1 LXT SCH80 TUBV-E S/T
81020012	1-1/4 LXT SCH80 TUBV-E S/T
81020015	1-1/2 LXT SCH80 TUBV-E S/T
81020020	2 LXT SCH80 TUBV-E S/T
81021030	3 LXT SCH80 TUBV-E SOC
81021040	4 LXT SCH80 TUBV-E SOC
81025005	1/2 LXT SCH80 TUBV-V S/T
81025007	3/4 LXT SCH80 TUBV-V S/T
81025010	1 LXT SCH80 TUBV-V S/T
81025012	1-1/4 LXT SCH80 TUBV-V S/T
81025015	1-1/2 LXT SCH80 TUBV-V S/T
81025020	2 LXT SCH80 TUBV-V S/T
81026030	3 LXT SCH80 TUBV-V SOC
81026040	4 LXT SCH80 TUBV-V SOC

ITEM	DESCRIPTION
81180005	1/2 LXT SCH80 TUBC-E S/T
81180007	3/4 LXT SCH80 TUBC-E S/T
81180010	1 LXT SCH80 TUBC-E S/T
81180012	1-1/4 LXT SCH80 TUBC-E S/T
81180015	1-1/2 LXT SCH80 TUBC-E S/T
81180020	2 LXT SCH80 TUBC-E S/T
81181030	3 LXT SCH80 TUBC-E SOC
81181040	4 LXT SCH80 TUBC-E SOC
81185005	1/2 LXT SCH80 TUBC-V S/T
81185007	3/4 LXT SCH80 TUBC-V S/T
81185010	1 LXT SCH80 TUBC-V S/T
81185012	1-1/4 LXT SCH80 TUBC-V S/T
81185015	1-1/2 LXT SCH80 TUBC-V S/T
81185020	2 LXT SCH80 TUBC-V S/T
81186030	3 LXT SCH80 TUBC-V SOC
81186040	4 LXT SCH80 TUBC-V SOC

Diaphragm Valves

LXT Diaphragm Valves are engineered to provide accurate throttling control and shut-off, utilizing a positive-stop, non-rising stem. The Weir-type design incorporates a PTFE diaphragm for maintaining purity, and uses EPDM o-ring seals on the union connections. Low-profile true union design minimizes space while allowing for ease of installation and maintenance. Valves are supplied with both socket and threaded-end connectors for versatility. They incorporate a built-in position indicator, and are operated with a high-impact, hand-wheel-style handle for easy operation.

ITEM	DESCRIPTION
81550005	1/2 LXT SCH80 DIAP.VA-E S/T
81550007	3/4 LXT SCH80 DIAP.VA-E S/T
81550010	1 LXT SCH80 DIAP.VA-E S/T
81550012	1-1/4 LXT SCH80 DIAP.VA-E S/T
81550015	1-1/2 LXT SCH80 DIAP.VA-E S/T
81550020	2 LXT SCH80 DIAP.VA-E S/T

IRRIGATION

INDUSTRIAL



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