

Franklin Fueling Systems certifies that Fuel Ethanol, also known commercially as E85, containing 51 % to 83 % ethanol by volume is compatible with APT TMA 4236 0/0 0C S and TMA 4836 0/0 0C S and APT LMM-3617. Franklin Fueling Systems has based this approval on the ASTM D5798 standard within the UL 2447 listing.

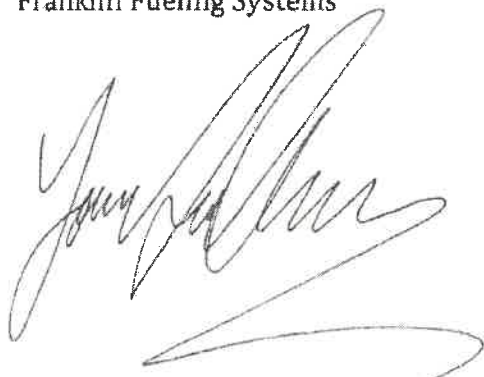
Per ASTM D5798 within the scope section 1.3 This specification formerly covered Fuel Ethanol (Ed70-Ed85) for Automotive Spark-Ignition Engines, also known commercially as E85. The nomenclature "fuel ethanol" has been changed to "ethanol fuel blends" to distinguish this product from denatured fuel ethanol Specification D4806. To facilitate blending of ethanol fuel blends that meet seasonal vapor pressure requirements, a new lower minimum ethanol content has been established.

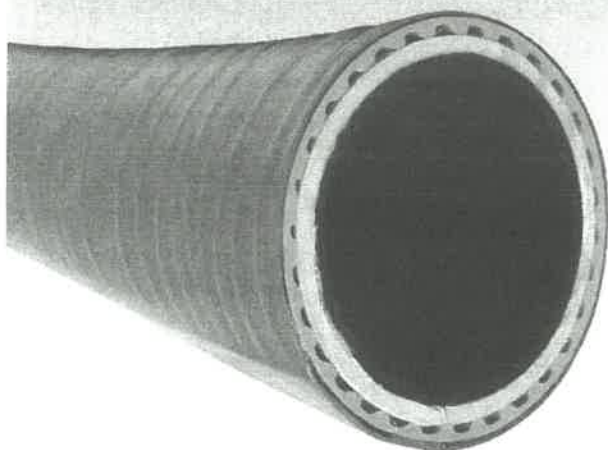
The APT containments listed above APT TMA 4236 0/0 0C S, TMA 4836 0/0 0C S and APT LMM-3617, are all listed under Franklin Fueling Systems UL2447 listing which incorporates the ASTM D5798 in the general information section for Fuel Rating - Automotive Fuels. For more information on ASTM D5798 follow the link below:

<https://www.astm.org/Standards/D5798.htm>

Sincerely,

Loren Swalheim
Director, Global Technical Service
Franklin Fueling Systems





XP FLEXIBLE PIPEWORK

APT™ brand XP pipework provides a highly flexible pipework solution that makes installation simple and easy in any weather condition or site configuration. XP pipework can be used in both pressure and suction applications, and is ideal for underground service station fuel delivery systems. The XP pipework system features controlled flexibility, even in low temperatures, permitting fast, easy installation.

Highlights

- Available in 1", 1½", 1¾" and 2" diameters in a variety of coil lengths.
- The D-Series piping is a single wall, direct bury piping.
- The SC-Series piping provides additional environmental security as a secondary contained direct bury pipe.
- XP pipe features a 3 ft. bend radius for all pipe diameters making it one of the most flexible, yet durable fuel pipes available.
- No possibility of piping layer delamination due to the layered piping construction of high-grade material.
- With long coils (1000+ ft.) and simple fittings, XP pipework can be installed quickly without specialized tools in any weather.

Specifications

- Primary layer construction of Nylon 12 - the fuel line material contains no polyethylene.
- Do not store piping in direct sunlight.

Approvals/Certifications

- UL971 listed to the January 2014 standards.
- Biofuel compatible (E85 and Biodiesel).

Ordering Information

Model	Description	Ft.	Reel	Weight	
				Lbs.	Kg
XP-100-SC	1" secondary contained	250	Master	301	136
		500	Master	408	185
		2500	S. Master	1299	589
XP-100-D	1" single wall	250	Master	258	117
		500	Master	320	145
		100	Master	250	113
XP-150-SC	1½" secondary contained	250	Master	333	151
		500	Master	470	213
		1,000	S. Master	789	358
		1,500	S. Master	1061	481
		100	Master	225	102
		250	Master	270	122
XP-150-D	1½" single wall	500	Master	570	259
		1,000	S. Master	536	243
		1,500	S. Master	686	311
		100	Master	300	136
		250	Master	405	184
		500	Master	580	263
XP-175-SC	1¾" secondary contained	1,000	S. Master	1076	488
		100	Master	335	152
		200	Master	440	200
		350	Master	598	271
		700	S. Master	971	440
		100	Master	295	134
XP-200-SC	2" secondary contained	200	Master	360	163
		350	Master	458	208
		700	S. Master	691	313
XP-200-D	2" single wall	200	Master	360	163
		350	Master	458	208
		700	S. Master	691	313

UL 2447 LISTED PRODUCTS

The UL 2447 requirement evaluates the safety of containment products intended for below or at grade use, which house, transfer or otherwise come in contact with fuel. The following is a listing of all Franklin Fueling Systems UL 2447 listed products.

COMPATIBLE FUELS

Automotive Fuels - only those fuels formulated in accordance with 40CFR80, "Regulation of Fuels and Fuel Additives," and meeting the following ASTM fuel specifications and blend limits:

- ASTM D975 diesel with or without biodiesel blends up to 5% (B5)
- ASTM D7467 diesel with biodiesel blends between 6% - 20% (B6 - B20)
- ASTM D4814 gasoline with ethanol blends up to 10% (E10)
- ASTM D5798 high-blend ethanol, with ethanol/gasoline blends between 51% - 83% (E51 - E83) - commercially known as "E-85"
- Mid-range ethanol, with ethanol/gasoline blends of ASTM D4814 and ASTM D5798 blends between 11% - 50% (E11 - E50)

TANK, DISPENSER, AND TRANSITION SUMPS

Part Number	Description
TSD-4542-IPB	TSD-4542 W/ SPECIAL IP
TSD-4736-IP	SRS/TNK SUMP-DEEP-36" MH W/ IP
TSD-4736-IPB	TSD-4736 W/ SPECIAL IP
TSD-W-4736	TNK SUMP-DEP BURY 36"ACCESS CV
TSM-4542-IPB	TSM-4542 W/ SPECIAL IP
TSM-4736	SRS- TNK SMP-MED.BURY 36"MNHLE
TSM-4736-IPB	TSM-4736 W/ SPECIAL IP
TSM-W-4736	TNK SUMP-MED BURY 36"ACCESS CV
TSS-4542	TNK SUMP-SHALLOW BURIAL 42" MH
TSS-4542-IPB	TSS-4542 W/ SPECIAL IP
DHW-3617	DISPENSER SUMP, 36X17 ASSEMBLY
LMD-1410	LMD DISPENSER SUMP 13.5 X 9.75
LMD-1913-T	LMD DISPENSER SUMP 19 X 12 TOKHEIM
LMD-2010	LMD DISPENSER SUMP 20.5 X 10
LMD-2018	LMD DISPENSER SUMP 20.8 X 18.3
LMD-2313-T	LMD DISPENSER SUMP ASSEMBLY 23X12
LMD-2407	LMD DISPENSER SUMP ASSEMBLY 23.75X7.5
LMD-2715	LMD DISPENSER SUMP-27 X 15
LMD-2811	LMD DISPENSER SUMP ASSEMBLY 28.5 X 11
LMD-2915	LMD DISPENSER SUMP 29.75 X 15.75
LMD-3610	LMD DISPENSER SUMP 36 X 10.25
LMD-3617	LMD DISPENSER SUMP 36X17.25
LMD-3914	LMD DISPENSER SUMP ASSEMBLY 38.75 X 14
LMD-3914-36-W	LMD DISPENSER SUMP ASSEMBLY 38.75x14,W
LMD-4018	LMD DISPENSER SUMP 39.75 X 17.75
LMD-4111	LMD DISPENSER SUMP 41.5 X 11
LMD-4115	LMD DISPENSER SUMP 41.5 X 15.75
LMM-1410	LMM DISPENSER SUMP 13.5 X 9.75
LMM-1913-T	LMM DISPENSER SUMP 19 X 12 TOKHEIM
LMM-2010	LMM DISPENSER SUMP 20.5 X 10
LMM-2018	LMM DISPENSER SUMP 20.8 X 18.3
LMM-2313-T	LMM DISPENSER SUMP ASSEMBLY 23 X 12
LMM-2407	LMM DISPENSER SUMP ASSEMBLY 23.75X7.5
LMM-2410-T-M	LMM DISPENSER SUMP ASSEMBLY 24 X 10
LMM-2715	LMM DISPENSER SUMP-27 X 15
LMM-2811	LMM DISPENSER SUMP ASSEMBLY 28.5 X 11
LMM-2915	LMM DISPENSER SUMP 29.75 X 15.75
LMM-2916-DEF	DEF-LMM DISPENSER SUMP 29.0X16.25
LMM-3610	LMM DISPENSER SUMP 36 X 10.25
LMM-3617	LMM DISPENSER SUMP 36.0X17.25
LMM-3617-36-CGS	LMM DISPENSER SUMP
LMM-3617-DEF	DEF-LMM DISPENSER SUMP 36.0X17.25
LMM-3914	LMM DISPENSER SUMP ASSEMBLY 38.75 X 14
LMM-3914-36-W	LMM DISPENSER SUMP ASSEMBLY 38.75x14,W
LMM-4018	LMM DISPENSER SUMP 39.75 X 17.75
LMM-4111	LMM DISPENSER SUMP 41.5 X 11
LMM-4115	LMM DISPENSER SUMP 41.5 X 15.75

Part Number	Description
LMT-1410	LM TOP ASSEMBLY 14" X 10.25
LMT-1913-T	LM TOP ASSEMBLY 19"X12" TOKHEIM
LMT-2010	LM TOP ASSEMBLY 20.5" X 10.375
LMT-2018	LM TOP ASSEMBLY 20.8" X 18.3
LMT-2313-T	TOP FRAME ADPTR GII 23 X 12
LMT-2407	TOP FRAME ADPTR GII 23.75X7.5
LMT-2715	LM DISPENSER TOP ASSEMBLY 27 X 15
LMT-2811	TOP FRAME ADPTR GII 28.5X11.0
LMT-2915	LM TOP ASSEMBLY 29.75"X15.75
LMT-3610	LM TOP ASSEMBLY 36" X 1-.25"
LMT-2916-DEF	LM TOP DEF ASSEMBLY 29.0" X 16.25
LMT-3617-36	TOP FRAME ASSEMBLY 36X17.25 36"SUMP
LMT-3617-DEF	LM TOP DEF ASSEMBLY 36.0" X 17.25
LMT-3914	TOP FRAME ADPTR GII 38.75X14.0
LMT-3914-36-W	TOP FRAME ASSEMBLY 36X17.25 36"SUMP
LMT-4018	LM TOP ASSEMBLY 40" X 18
LMT-4111	LM TOP ASSEMBLY 41.5" X 11
LMT-4115	LM TOP ASSEMBLY 41" X 15
LMD-2313-T-S	LMD DISPENSER SUMP 23X12 FRP
LMD-2407-S	LMD DISPENSER SUMP 23.75x7.5 FRP
LMD-2715-S	LMD DISPENSER SUMP 27X15 FRP
LMD-2811-S	LMD DISPENSER SUMP 28X11.5 FRP
LMD-2915-S	LMD DISPENSER SUMP 29.75X15.75FRP
LMD-3617-S	LMD DISPENSER SUMP 36.0X17.25 FRP
LMD-4113	LMD DISPENSER SUMP ASSEMBLY 41.5X13.2
LMM-1410-D	LMM DISPENSER SUMP 13.5 X 9.75 FRP
LMM-1410-S	LMM DISPENSER SUMP 13.5 X 9.75 FRP
LMM-1913-T-D	LMM DISPENSER SUMP 19X13 FRP
LMM-1913-T-S	LMM DISPENSER SUMP 19X13 FRP
LMM-2010-D	LMM DISPENSER SUMP 20X10.5 FRP
LMM-2010-S	LMM DISPENSER SUMP 20X10.5 FRP
LMM-2018-D	LMM DISPENSER SUMP 20.8X18.3 FRP
LMM-2018-S	LMM DISPENSER SUMP 20.8X18.3 FRP
LMM-2313-T-D	LMM DISPENSER SUMP 23X12 FRP
LMM-2313-T-S	LMM DISPENSER SUMP 23X12 FRP
LMM-2407-D	LMM DISPENSER SUMP 23.75x7.5 FRP
LMM-2407-S	LMM DISPENSER SUMP 23.75x7.5 FRP
LMM-2715-D	LMM DISPENSER SUMP 27X15 FRP
LMM-2715-S	LMM DISPENSER SUMP 27X15 FRP
LMM-2811-D	LMM DISPENSER SUMP 28X11.5 FRP
LMM-2811-S	LMM DISPENSER SUMP 28X11.5 FRP
LMM-2915-D	LMM DISPENSER SUMP 29.75X15.75FRP
LMM-2915-S	LMM DISPENSER SUMP 29.75X15.75FRP

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TANK, DISPENSER, AND TRANSITION SUMPS CONTINUED

Part Number	Description
LMM-3610-D	LMM DISPENSER SUMP 36X10.25 FRP
LMM-3610-S	LMM DISPENSER SUMP 36X10.25 FRP
LMM-3617-D	LMM DISPENSER SUMP 36.0X17.25 FRP
LMM-3617-S	LMM DISPENSER SUMP 36.0X17.25 FRP
LMM-3914-36-W-D	LMM DISPENSER SUMP 38.75X14,FRP
LMM-3914-36-W-S	LMM DISPENSER SUMP 38.75X14 FRP
LMM-3914-D	LMM DISPENSER SUMP 38.75X14 FRP
LMM-3914-S	LMM DISPENSER SUMP 38.75X14 FRP
LMM-4018-D	LMM DISPENSER SUMP 39.75X17.57FRP
LMM-4018-S	LMM DISPENSER SUMP 39.75X17.57FRP
LMM-4111-D	LMM DISPENSER SUMP 41.5X11 FRP
LMM-4111-S	LMM DISPENSER SUMP 41.5X11 FRP
LMM-4115-D	LMM DISPENSER SUMP 41.5X15.75FRP
LMM-4115-S	LMM DISPENSER SUMP 41.5X15.75FRP
LMT-2913	TOP FRAME GII 29.75 X 15.25
LMM-2407-SW-R	SW UNDERDISPENSER SUMP,23.75x7.5x36
DP-1816	DISPENSER PAN 13 3/4 X 11 1/4
DP-2014	DISPENSER PAN 16 1/2 X 10 1/2
DP-2816	DISPENSER PAN 23 X 11 3/4
DP-4721	DISPENSER PAN 42 X 16
DS3617 ENCORE	SUMP,PE,ENCORE BASE,UPP
DS3915 OVATION	SUMP,PE,WAYNE BASE,UPP
AST-2922	AST-TRANSITION SUMP
IPS-2424	INTERMED. PIPING SUMP-24
IPS-3636	INTERMED. PIPING SUMP-36
TS-2430	TRANSITION SUMP 24" BASE
TS-3630	SHALLOW BURY 36" SUMP
TS-4230	STD BURY 42" TANK SMP
TS-KIT	TS-3630/4230 RETRO FIT KIT
TM4236-0/0-OB-S	TS,MB,42"R,36"MH,O BS W/BTM,SW
TM4236-0/0-OC-H	TS,MB,42"R,36"MH,O BS,DW,HYDRO
TM4236-0/0-OC-S	TS,MB,42"R,36"MH,O BASE,SW
TM4236-0/0-OC-V	TS,MB,42"R,36"MH,O BS,DW,VACUM
TM4836-0/0-OC-H	TS,MB,48"R,36"MH,O BS,DW,HYDRO
TM4836-0/0-OC-V	TS,MB,48"R,36"MH,O BS,DW,VACUM
TMA4236-0/0-RC-S	TS,MB,42"R,36"MH,SW,W/BOND ADP
TMA4836-0/0-OB-S	TS,MB,48"R,36"MH,SW,W/BOND ADP
TMA4836-0/0-OC-S	TS,MB,48"R,36"MH,SW,W/BOND ADP
TMA4836-0/0-RC-S	TS,MB,48"R,36"MH,SW,W/BOND ADP
TMA4842-0/0-OB-S	TS,MB,48"R,42"MH,SW,W/BOND ADP
TMA4842-0/0-OC-S	TS,MB,48"R,42"MH,SW,W/BOND ADP
TD4236-0/0-OB-S	TS,DB,42"R,36"MH,O BS W/BTM,SW
TD4236-0/0-OC-S	TS,DB,42"R,36"MH,O BASE,SW
TD4836-0/0-OC-H	TS,DB,48"R,36"MH,O BS,DW,HYDRO
TD4836-0/0-OC-V	TS,DB,48"R,36"MH,O BS,DW,VACUM
TDA4236-0/0-RC-S	TS,DB,42"R,36"MH,SW,W/BOND ADP
TDA4836-0/0-OB-S	TS,DB,48"R,36"MH,SW,W/BOND ADP
TDA4836-0/0-OC-S	TS,DB,48"R,36"MH,SW,W/BOND ADP
TDA4836-0/0-RC-S	TS,DB,48"R,36"MH,SW,W/BOND ADP
DMM4236-1/0-OB-S	DMPS,MB,42"R,36"MH,BASE W/B,SW
DMM4236-1/0-OC-H	DMPS,MB,42"R,36"MH,BASE,DW,H
DMM4236-1/0-OC-S	DMPS,MB,42"R,36"MH,BASE,SW
DMM4236-2/1-OB-S	DMPS,MB,42"R,36"MH,BASE W/B,SW
DMM4236-2/1-OC-H	DMPS,42"R,36"MH,BASE,DW,H
DMM4236-2/1-OC-S	DMPS,42"R,36"MH,BASE,SW
DMM4836-2/1-OC-S	DMPS,48"R,36"MH,BASE,SW
DMM4842-4/0-OC-H	DMPS,MB,48"R,42"MH,BASE,DW,H
DMM4842-4/0-OC-S	DMPS,MB,48"R,42"MH,BASE,SW

Part Number	Description
TSS-4236	WTSS,42/36 RDCR,TURBINE COVER
TSS-4836	WTSS,48/36 RDCR,TURBINE COVER
TSS-XS36	WTSS,XERXES RDCR,TURBINE
TSS-36	SUMP SHIELD,WT,36" TURBINE
TSS-42	SUMP SHIELD,WT,42" TURBINE

SPILL CONTAINERS

Part Number	Description
70245001NC	RETRO,5BG,PUMP,18"x8"MH,NC
70245001ORG	RETRO,5BG,PUMP,18"x8"MH,ORG
70245001RED	RETRO,5BG,PUMP,18"x8"MH,RED
70245001STL	RETRO,5BG,PUMP,18"x8"MH,STL
70245001WHT	RETRO,5BG,PUMP,18"x8"MH,WHT
70245001YEL	RETRO,5BG,PUMP,18"x8"MH,YEL
70245065	RETRO,5BG(CAN),PUMP,18x8MH
70245065BLK	RETRO,5BG(CAN),PUMP,18x8MH,BLK
70245065ORG	RETRO,5BG(CAN),PUMP,18x8MH,ORG
70245065RED	RETRO,5BG(CAN),PUMP,18x8MH,RED
70245065WHT	RETRO,5BG(CAN),PUMP,18x8MH,WHT
70245065YEL	RETRO,5BG(CAN),PUMP,18x8MH,YEL
70547401BLK	5BG,MB,P/P,18"x8"MH,BLK
70547401NC	5BG,MB,P/P,18"x8"MH,NC
70547401ORG	5BG,MB,P/P,18"x8"MH,ORG
70547401RED	5BG,MB,P/P,18"x8"MH,RED
70547401STL	5BG,MB,P/P,18"x8"MH,STL
70547401WHT	5BG,MB,P/P,18"x8"MH,WHT
70547401YEL	5BG,MB,P/P,18"x8"MH,YEL
70547402BLK	5BG,MB,NO DRN,18"x8"MH,BLK
70547465BLK	5BG(CAN),MB,P/P,18"x8"MH,BLK
70547465NC	5BG(CAN),MB,P/P,18"x8"MH,NC
70547465ORG	5BG(CAN),MB,P/P,18"x8"MH,ORG
70547465RED	5BG(CAN),MB,P/P,18"x8"MH,RED
70547465STL	5BG(CAN),MB,P/P,18"x8"MH,STL
70547465WHT	5BG(CAN),MB,P/P,18"x8"MH,WHT
70547465YEL	5BG(CAN),MB,P/P,18"x8"MH,YEL
70547765BLK	5BG(CAN),MB,P/P,18"x24"MH,BLK
70547765NC	5BG(CAN),MB,P/P,18"x24"MH,NC
705477NDBLK	5BG,MB,NO DRN,18"x24"MH,BLK
705477NDNC	5BG,MB,NO DRN,18"x24"MH,NC
705477NDORG	5BG,MB,NO DRN,18"x24"MH,ORG
705477NDRED	5BG,MB,NO DRN,18"x24"MH,RED
705477NDWHT	5BG,MB,NO DRN,18"x24"MH,WHT
705477NDYEL	5BG,MB,NO DRN,18"x24"MH,YEL
70549201BLK	5BG(CARB),MB,DRN,18"x8"MH,BLK
70549201RED	5BG(CARB),MB,DRN,18"x8"MH,RED
70549201WHT	5BG(CARB),MB,DRN,18"x8"MH,WHT
70549201YEL	5BG(CARB),MB,DRN,18"x8"MH,YEL
70549202BLK	5BG(CARB),MB,ND,18"x8"MH,BLK
70549202ORG	5BG(CARB),MB,ND,18"x8"MH,ORG
70549202RED	5BG(CARB),MB,ND,18"x8"MH,RED
70549202WHT	5BG(CARB),MB,ND,18"x8"MH,WHT
70549202YEL	5BG(CARB),MB,ND,18"x8"MH,YEL
70549212BLK	5BG,E85,MB,ND,18x8MH,BLK
71544601BLK	15BG,MB,CAPD,18"x8"MH,BLK
71547401BLK	15BG,MB,P/P,18"x8"MH,BLK
71547401BRN	15BG,MB,P/P,18"x8"MH,BRN
71547401NC	15BG,MB,P/P,18"x8"MH,NC

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