

## P34AXL Series Parts List

**Note:** The first P34AXL low-side ammonia units were shipped in late 1997. The original con utilized Cutler-Hammer components, that was changed to Allen Bradley in mid 1999. The repl listed on the parts list below will be the Allen Bradley components currently being used.

### Control Panel Components, Allen-Bradley since 1999

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2590G12	1	GAGE, 4 1/2" DIAMETER, 30"-150# 1/4" BC, AMMONIA <b>Suction Pressure Gage (Optional)</b>
12A2590G13	1	GAGE, 4 1/2" DIAMETER, 30"-300# 1/4" BC, AMMONIA <b>Discharge Pressure Gage (Optional)</b>
12A2117D01	1	HI/LOW PRESSURE SWITCH <b>(Optional)</b>
12A7500E60	1	A/B SELECTOR SWITCH, 2 POSITION <b>"1SS" Hand/Auto Switch</b>
12A7500E74	1	CONTACT BLOCK/MOUNTING LATCH, 1-NO, 1-NC <b>Contact Block for 12A7500E60 Selector Switch</b>
12A7500E57	1	A/B PUSH BUTTON SWITCH (RED) <b>"1PB" Stop Push-Button Switch</b>
12A7500E76	1	CONTACT BLOCK/MOUNTING LATCH, 1-NC <b>Contact Block for 12A7500E57</b>
12A7500E56		A/B PUSH BUTTON SWITCH (GREEN) <b>"2PB" Start Push-Button Switch</b>
12A7500E75	1	CONTACT BLOCK/MOUNTING LATCH, 1-NO <b>Contact Block for 12A7500E56</b>
12A7500E58	1	A/B PUSH BUTTON SWITCH (WHITE) <b>"3PB" Manual Harvest Switch</b>
12A7500E75	1	CONTACT BLOCK/MOUNTING LATCH, 1-NO <b>Contact Block for 12A7500E58</b>
12A7503E22	1	THAW TIMER, 8 PIN PLUG-IN, 100-240V., 50/60HZ <b>"2TR" Harvest / Thawing Timer</b>
12A7503E39	1	TIMER BASE, 8 PIN, GUARDED TERMINAL
12A7503E3K	1	KIT, EAGLE DIGITAL TIMER , 208/240V 50/60 HZ <b>Primary Freezing Timer</b>
12A7503E4K	1	KIT, EAGLE DIGITAL TIMER, 120 VOLT 50/60HZ <b>Primary Freezing Timer</b>
12B7503E21	1	ELAPSED TIME INDICATOR, 220V, 60HZ, DIN RAIL MOUNT
12B7503E20	1	ELAPSED TIME INDICATOR, 220V, 50HZ, DIN RAIL MOUNT
12A7500E78B	1	BLUE LED LIGHT MODULE/MOUNTING LATCH <b>"1LT" Freezing</b>
12A7500E78R	1	RED LED LIGHT MODULE/MOUNTING LATCH <b>"3LT" Thawing</b>
12A7500E78W	1	WHITE LED LIGHT MODULE/MOUNTING LATCH <b>"2LT" Liquid Feed</b>
12A7520E35	3	BULB #755, A/B 2TL5/2TL7 PILOT LIGHT, 6.3V

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### Control Panel Components (Con'd)

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A7517E27	1	RELAY, AB, 10A, 2-NO/2-NC, 208/240 <b>"1CR" Relay (Replaces 12A7517E02-700N200A2)</b>
12A7517E28	2	A/B RELAY, 10A, 3-NO/1-NC, 208/240 <b>"2CR" &amp; "3CR" Relay (Replaces 12A7517E02-700N200A2)</b>
12A7517E32	1	RELAY, 10A, 2 NO/2 NC, 120V <b>"CR1" Relay for 120 Volt Controls</b>
12A7517E33	2	RELAY, 10A,3 NO/1 NC, 120V <b>"CR2 or CR3" Relay for 120 Volt Controls</b>
12A7518E30	1	A/B AUX. CONTACT, 3A, 1 NO/1 NC, (SIDE MOUNT)
12A7503E38	1	A/B TIMER, PNEUMATIC, ON-DELAY FOR 700-CF RELAY <b>Time Delay for Cutter Motor on "1CR" Relay</b>
12A7516E23	1	A/B CONTACTOR, 9-AMP, 3-POLE, 208/240V W/1-NO AUX <b>"2M" Water Pump or "3M" Cutter Motor (9-amp Max)</b>
12A7516E24	1	A/B CONTACTOR, 12-AMP, 3 POLE, 208/240V W/1-NO AUX <b>"2M" Water Pump or "3M" Cutter Motor (12-amp Max)</b>
12A7516E25	1	A/B CONTACTOR, 16-AMP, 3-POLE, 208/240V W/1-NO AUX <b>"2M" Water Pump or "3M" Cutter Motor (16-amp Max)</b>
12A7516E27	1	A/B CONTACTOR, 30-AMP, 3-POLE, 208/240V W/1-NO AUX <b>"2M" Water Pump or "3M" Cutter Motor (30-amp Max)</b>
12A7530E54UL	1	MANUAL MOTOR STARTER, 1.6-2.5A
12A7530E55UL	1	MANUAL MOTOR STARTER, 2.5-4.0A
12A7530E56UL	1	MANUAL MOTOR STARTER, 4.0-6.3A
12A7530E57UL	1	MANUAL MOTOR STARTER, 6.3-10.0 AMP
12A7530E58UL	1	MANUAL MOTOR STARTER, 10.0-16.0 AMP
12A7530E59UL	1	MANUAL MOTOR STARTER, 18.0-25.
12A7518E33UL	2	AUX. CONTACT, 6A, 1 NO TRIP, 1 NC TRIP <b>Auxillary for Water Pump and Cutter Motor Starter</b>
<p><b>Note: If replacing Water Pump Or Cutter Motor Contactor in Pre-1999 Cutler-Hammer Contrc the Contactor &amp; Overload Relays listed below will be required (wiring drawing available u request). Amp rating on motors should be set in compliance with name plate amp rating whe the overload relay.</b></p>		
12A7516E24	1	A/B CONTACTOR, 12-AMP, 3 POLE, 208/240V W/1-NO AUX <b>"2M" Water Pump or "3M" Cutter Motor (12-amp Max)</b> <b>Water Pump or Cutter Motor Contactor (12-amp Max)</b>
12A7538E11	1	OVERLOAD RELAY, 1-5AMP SOLID STATE <b>Cutter Motor or Water Pump 460 Volt</b>
12A7538E12	1	OVERLOAD RELAY, 3.2-16AMP SOLID STATE <b>Cutter Motor or Water Pump 230 Volt</b>

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### Control Panel Components (Con'd)

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A7519E31		TRANSFORMER, HEVI-DUTY 1KVA 240/480-120/240 60HZ
12A7519E24		TRANSFORMER, HEVI-DUTY, 1KVA, 380/400/50 HZ,
12A7515E09	1	CIRCUIT BREAKER, 30 AMP. WESTINGHOUSE <b>"CB2"</b>
12A7515E08	1	CIRCUIT BREAKER, 15 AMP. WESTINGHOUSE <b>"CB3"</b>
12A7515E22S	1	CIRCUIT BREAKER, 6A, 2 POLE, 4 <b>"CB4" Control Circuit</b>

### Freezer Components

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2600G1	1	FREEZER COVER GASKET 37" OD x 33" ID x 3/16"
12B2145C07	1	P34 POLYCARBONATE FREEZER COVER W/4" VENT HOLE <b>(Requires the valve and pipe listed below when replacing stainless, galvanized or polycarbonate cover with 2-1/2" hole)</b>
12A4200B1008	1	VALVE, AIR ADMITTANCE, 4" MAXI-VENT
19T3049P0401	1	PIPE, 4" STD. WT. PVC 8" LG. (DRILLED)
19T4001S0916	4	P34 FREEZER COVER RETAINING RINGS
12A2240H4109	16	NUT, WING, BRASS, 3/8"-16NC
12A2250A12	16	WASHER, CUT 3/8" x 1" O.D. SS
12B2185V12	564	1" VENT TUBE WATER DISTRIBUTOR, 16GA WHITE
12B2185V22	420	1-1/4" VENT TUBE WATER DISTRIBUTOR, 16GA WHITE
12B2185V32	306	1-1/2" VENT TUBE WATER DISTRIBUTOR, 16GA WHITE
12B2185V42	228	1-3/4" VENT TUBE WATER DISTRIBUTOR, 16GA WHITE
12A4009R01		PLUG, RUBBER 7/8" OD X 2" LG FOR 1" TUBES <b>Requires 3/8" Bolt, Nut &amp; Washers</b>
12A4009R02		PLUG, RUBBER 1"OD X 2 1/2"LG FOR 1-1/4" TUBES <b>Requires 3/8" Bolt, Nut &amp; Washers</b>
12A4009R03		PLUG, RUBBER 1 1/4"OD X 2 1/2" FOR 1-1/2" TUBES <b>Requires 3/8" Bolt, Nut &amp; Washers</b>
12A4009R04		PLUG ,RUBBER 1 1/2"OD X 2 1/2" FOR 1-3/4" TUBES <b>Requires 3/8" Bolt, Nut &amp; Washers</b>
12A2215H1119	1	CAP SCREW, 3/8"-16NC X 3" LONG
12A2240A1109	1	NUT, HEX 3/8"-16NC S.S.
12A2250A12	2	WASHER, CUT 3/8" x 1" O.D. SS <b>(Use this washer for 1" tubes)</b>
12A2250A109	2	WASHER, CUT 3/8" x 7/8" O.D. SS <b>(Use this washer for 1 1/4", 1 1/2" &amp; 1 3/4" tubes)</b>
12A7500E22	1	FLOAT SWITCH, HANSON #HLL (DIFFERENTIAL SET @ 1/2")
12A7500E24	1	SWITCH ASSEMBLY #HLL-SW FOR HANSON
12A7509E17		HEATER, HANSEN #HTR2 FOR 12A7500E22 FLOAT SWITCH

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### Freezer Components (Con'd)

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
		<b>Optional - Heater for Refrigerant Float Switch Assembly</b>
12A2600F01	2	FLANGE GASKET FOR 3/4" & 1" 2-BOLT FLANGE
12A2625G03	1	GAGE GLASS 1/2" X 28-1/8" LONG <b>For Use with Hand Wheel Gage Cock Valves</b>
12A2625G11	1	GAGE GLASS, 1/2" X 28 3/8" LONG <b>For Use with Service Wrench Gage Cock Valves</b>
12A2625G05	1	GAGE GLASS 1/2" X 29" LONG <b>For Custom Application (Cut to Fit)</b>
19T2635G06	1	GAGE GLASS GUARD SET, 27 1/4" <b>For Use with Service Wrench Gage Cock Valves</b>
12A2635G06	1	GAGE GLASS GUARD 60" LENGTH <b>For Custom Application (Cut to Fit)</b>
12A4199V26	2	GAGE GLASS PACKING O-RING FOR 1/2" DIAMETER
12A4200J0405	1	UPPER GAGE COCK VALVE, STEEL <b>Replaced Hand Wheel Valve - May 1999</b>
12A4200J0406	1	LOWER GAGE COCK VALVE, STEEL <b>Replaced Hand Wheel Valve - May 1999</b>
12A3050C0301	2	PIPE NIPPLE, 1/2" X 1-1/2" LONG
<b>Note: Serial number of unit required for purchase of relief valves. Relief valve setting must not exceed the design pressure of the vessel.</b>		
12A4200L0409	2	RELIEF VALVE SET @ 275#, 1/2" MPT x 1" FPT
12A4200M0402	1	3-WAY VALVE 1/2" NPT

## P34AXL Series Parts List

### Cutter Drive

<p><b>Note:</b> The cutters on the original P34XL units were driven by a Reliance 2HP gearmotor which changed in 1998 to Grove. A design change in 2000 upgraded the Grove gearmotor to 3HP. upgrade to the current 3HP Grove gearmotor requires replacement of the gearmotor mount and upgrading of the overloads.</p>		
<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2900M0803	1	GEARMOTOR, GROVE 15:1, 2HP, 230-460V-3P-50/60HZ
12A2900M0805	1	MOTOR, 2 HP, FOR GROVE GEARMOTOR 12A2900M0803
12A4030R11	1	REDUCER, GROVE 15:1 FOR GEARMOTOR 12A2900M0803
12A4080S18	1	SEAL KIT FOR GROVE REDUCER 12A4030R11 <i>Includes Input &amp; Output Seal</i>
12A2900M0806A	1	3HP MOTOR, W/GROVE GEAR REDUCER FOR 34XL UNITS <i>Started Using in Production August 2016, Motor and or Gear Reducer ordered separately may not work with previous combinations, please have equipment serial number when ordering a Cutter Motor or Gear Reducer. If replacing both 3HP Motor &amp; Reducer this unit will work as a replacement on all previous units.</i>
12A2900M0807	1	MOTOR, 3HP FOR GROVE GEARMOTOR 12A2900M0806A
12A4030R19A		P34AXL GEAR REDUCER, W/SPACER FOR 3 HP MOTOR
12A4080S31	1	SEAL KIT FOR GROVE REDUCER 12A4030R19 <i>Includes Input &amp; Output Seal</i>
19T1501S27	1	P34 MTING PLATE ASSY FOR 3HP GROVE REDUCER
12B2615D05	1	P34 DRIVE GEAR , ALUMINUM / BRONZE 12" PD, 96 TEETH
12B2060B02	1	DRIVE GEAR HUB, STAINLESS STEEL 1-1/4" BORE <i>Used with Grove Gearmotors</i>
12B2060B01	1	DRIVE GEAR HUB, STAINLESS STEEL 1-1/8" BORE <i>Used with Reliance Gearmotors</i>
12A2215G111	3	CAP SCREW, 5/16"-18NC X 1" SS HEX HEAD
12A2250B108	3	WASHER, LOCK 5/16" SS ( 300 SERIES)
19T2615R04	1	P34 FINISHED RING GEAR
12A3040S05	8	ROLL PIN, 1/4" X 3/4" STAINLESS STEEL

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### Cutter Internals

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
19T2035B02	2	CUTTER BLADE, P34, 15" LONG
19T2010A13	2	P34 ADAPTOR PLATE
19T4130T09	8	SPACER, 1/2" X 15/16" LONG
12A2226H1117	8	MACHINE SCREW, FLAT HEAD SS, 3/8"-16NC x 2-1/2" LG <i>For Adaptor Plates</i>
12A2240A1309	8	NUT, HEX 3/8"-16NC S.S.
19T2025B0106	1	BEARING BRACKET ASSEMBLY FOR P34
19T2163D0403	1	TINES DISC - P34 CYLINDER ICE
19T4130C02	1	P24/34 TINES DISC HUB SPACER
19T4090S03	1	P24/34 CUTTER SHAFT
19T4065R01	1	P24/34 CUTTER RETAINING SPACER
19T2165K2434	1	P24/P34 CUTTER REPAIR KIT <i>Kit Contains Items for Cutter Maintenance and Rebuild</i>

### Water Tank/Circulating Water

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A4020G12	1	PUMP, GOULD SSH-C, 3 HP, 208-230/460V-3P-50/60HZ <i>Replaces all pump used (7-1/2 &amp; 10hp)</i>
12A2600R03	1	GASKET, 5-1/4" OD x 3-1/4" ID x 1/8" RED RUBBER, 3" FLANGE
12A2600G11	1	WATER TANK GASKET, 40"OD x 37"ID x 3/16"
12A4200H0603	1	FLOAT VALVE, 1-1/2" ROBERTS LEAD FREE BRASS
12A3050S0701	1	PIPE NIPPLE 1 1/2" ALL THREAD
12A4200HP05A	1	VALVES, STEM ADAPTER FOR WATER FLOAT VALVE
12A4200HP05	1	VALVES, STEM, FOR ROBERTS,
12A4200HP04	1	FLOAT BALL, FOR ROBERTS 1 1/2" FLOAT VALVE
12A4200A0607LF	1	VALVE, WATER, 3/4", LEAD FREE, GRANZOW, LESS COIL <i>Water Tank Flush Valve (Replaces Sporlan)</i>
12A2105C42K	1	ASSEMBLY, COIL, 230/240V GRANZOW
12A2105C41K	1	ASSEMBLY, COIL, 110/120V GRANZOW
126223	1	COIL FOR SPORLAN SOLENOID, 230V/60HZ
12A2105C06	1	COIL FOR SPORLAN SOLENOID, 120 VOLT, 50/60 HZ
12A4170T01	1	THERMOMETER, WEKSLER, 2" DIAL, 4" STEM 25-125 DEG F.
12A4205G0603LF	1	1 1/2" FPT, LEAD FREE GATE VALVE, LEGEND #: 104-307NL
12A4078C02	1	CURTAIN, P34 CRUSHED ICE
12A4181T15	12	TUBING, PLASTIC, CLEAR, 2-7/8" ID x 3-1/4" OD NSF <i>Circulating Water (Priced per ft.) (12ft. Lengths Only)</i>
12A4181T09	18	TUBING, PLASTIC, CLEAR, 2" ID x 3/16" THK <i>Overflow (Priced per ft.)</i>

## P34AXL Series Parts List

### Liquid Line

<b>Note: Standard P34AXL units are built with 1" liquid lines, some Liquid Overfeed units have liquid lines. Please verify the line size when ordering replacement parts.</b>		
<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A4200C1201	1	EXPANSION VALVE, HANSEN 1-1/2" SOCKET WELD
12A4200A1404	1	VALVES, HANSEN #HS4A, 2" INTERNAL PORT, 240V-60HZ
12A4140S18	1	STRAINER, HANSEN ST200 2"
12A4200B1101	1	CHECK VALVE, 1-1/2" SOCKET WELD
12A4200C0802	1	EXPANSION VALVE, HANSEN 1" SOCKET WELD <i>Used in models with 1" liquid line</i>
12A4200A06	1	VALVES, SOLENOID, HANSEN #HS7, 3/4" PORT <i>Used in models with 1" liquid line</i>
12A4140S07	1	STRAINER, HANSEN 1", 60 MESH, W/DRAIN CONNECTION <i>Used in models with 1" liquid line</i>
12A2600F01	2	FLANGE GASKET FOR 3/4" & 1" 2-BOLT FLANGE
12A4200B0602	1	CHECK VALVE, HANSEN, 1-1/4" PORT WITH ADAPTOR RING <i>Used in models with 1" liquid line</i>
12A2538S0107	1	FLANGE SET, 1" FPT, HANSEN 2-BOLT
126229	1	COIL, HANSEN, 208/240V-50/60HZ
12A2105C08	1	COIL, HANSEN, 115V-50/60HZ (1/2" FITTING)
12A4199V52	1	REPAIR KIT FOR HANSEN HS7
12A7500E22	1	FLOAT SWITCH, HANSON #HLL (DIFFERENTIAL SET @ 1/2")
12A7500E24	1	SWITCH ASSEMBLY #HLL-SW FOR HANSON <i>Also can be used on RS Type LL</i>
12A7509E17		HEATER, HANSEN #HTR2 FOR 12A7500E22 FLOAT SWITCH <i>Optional - Heater for Refrigerant Float Switch Asembly</i>
12A2600F01	2	FLANGE GASKET FOR 3/4" & 1" 2-BOLT FLANGE

### Thawing Gas Line

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
<b>Note: The Thawing Gas Line on early P34AXL units were 2", in July 2001, the line size was inc 2 1/2". Please verify the line size before ordering replacement parts.</b>		
12A4200D1402	1	REGULATOR, HANSEN HA40S 2" 240V COIL <i>Replaces Hubbell regulator</i>
12A4199V34H	1	REPAIR KIT FOR 2" HANSEN HA40S REGULATOR
12A4140S18	1	STRAINER, HANSEN ST200 2"
12A4200D1502	1	REGULATOR, HANSEN HA40S 2-1/2" 240V COIL <i>Replaces Hubbell regulator</i>
12A4199V34XLH	1	REPAIR KIT FOR 2 1/2" HANSEN HA40S REGULATOR
126229	1	COIL, HANSEN, 208/240V-50/60HZ
12A4140S15	1	STRAINER, HANSEN, 2 1/2" W/ 1/4" OUTLET SENSING PORT
12A2105C08	1	COIL, HANSEN, 115V-50/60HZ (1/2" FITTING)
12A4200B1403	1	CHECK VALVE, HANSEN 2" (9-7/8" LONG, FEMALE FLGS) <i>Note: Henry &amp; Hubbell check valves both obsolete</i>

## P34AXL Series Parts List

### Valves-Flanges-Gaskets

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A4200G021		VALVES, 1/4" MPT x 1/4" FPT ANGLE
12A4200G0202		ANGLE VALVE, 1/4" MPT x 1/4" FPT
12A4200G0304		ANGLE VALVE, HANSEN 3/8" MPT X 3/8" FPT
12A4200G0402		ANGLE VALVE, 1/2" MPT x 1/2" FPT
12A4200G0407		VALVES, GLOBE, HANSEN 1/2" SOCKET WELD
12A4200G0603		ANGLE VALVE, 3/4" FPT x 3/4" FPT
12A4200G0804		VALVES, ANLGE, 1" SOCKET WELD
12A4200G0805		VALVES, GLOBE, 1" SOCKET WELD
12A4200G1203		VALVES, GLOBE, 1 1/2", SOCKET WELD
12A4200G1406		VALVE, 2" SOC WELD HANSEN GS20
12A4200G1604		VALVE, 2 1/2" SOCKET WELD HANS
12A4200G1806		VALVES, GLOBE, STOP 3" WELD HANSEN
12A4200G2104		VALVES, ANGLE STOP 4" B.W. HAN
12A4200D1601		3" DUAL PRESS REG. HANSEN HA4AD W/STRAINER-230V
12A4200D1701		4" DUAL PRESS REG. HANSEN HA4AD W/STRAINER-230V
12A2538S0106		FLANGE SET, 3/4" FPT, HANSEN 2-BOLT
12A2538S0107		FLANGE SET, 1" FPT, HANSEN 2-BOLT
12A2530G0206		FLANGE, 2" HENRY GROOVE SOCKET WELD
12A2530T0206		FLANGE, 2" HENRY TONGUE SOCKET WELD
12A2535T0106		FLANGE ADAPTOR, 2" MALE TO MALE
12A2530G0208		FLANGE, 2-1/2" HENRY GROOVE SOCKET WELD
12A2530T0208		FLANGE, 2-1/2" HENRY TONGUE SOCKET WELD
12A2530G021		FLANGE, 3" HENRY GROOVE SOCKET WELD
12A2530T021		FLANGE, 3" HENRY TONGUE SOCKET WELD
12A2530G0212		FLANGE, 4" HENRY GROOVE SOCKET WELD
12A2530T0212		FLANGE, 4" HENRY TONGUE SOCKET WELD
12A2600F01		FLANGE GASKET FOR 3/4" & 1" 2-BOLT FLANGE
12A2600F04		GASKET, 2" HENRY
12A2600F05		GASKET, 2-1/2" HENRY
12A2600F06		GASKET, 3" HENRY
12A2600F08		GASKET, 4" HENRY

### Pressure Line & Fittings

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A4182S03		TUBING, 1/4" OD TYPE 304 STAINLESS (PRICED PER FT)
12A2452M02		CONNECTOR, MALE, 1/4" MPT x 1/4" TUBING
12A2452E01		ELL, 90 DEG 1/4" MPT X 1/4" TUBING
12A2452F01		CONNECTOR, FEMALE 1/4" FPT x 1/4" TUBING
12A2452T01		TEE, UNION, 1/4" x 1/4" x 1/4" TUBING
12A2452T02		TEE, 1/4" TUBING x 1/4" TUBING x 1/4" MPT
12A2100C0303		CLAMPS, 1/4" OD TUBING