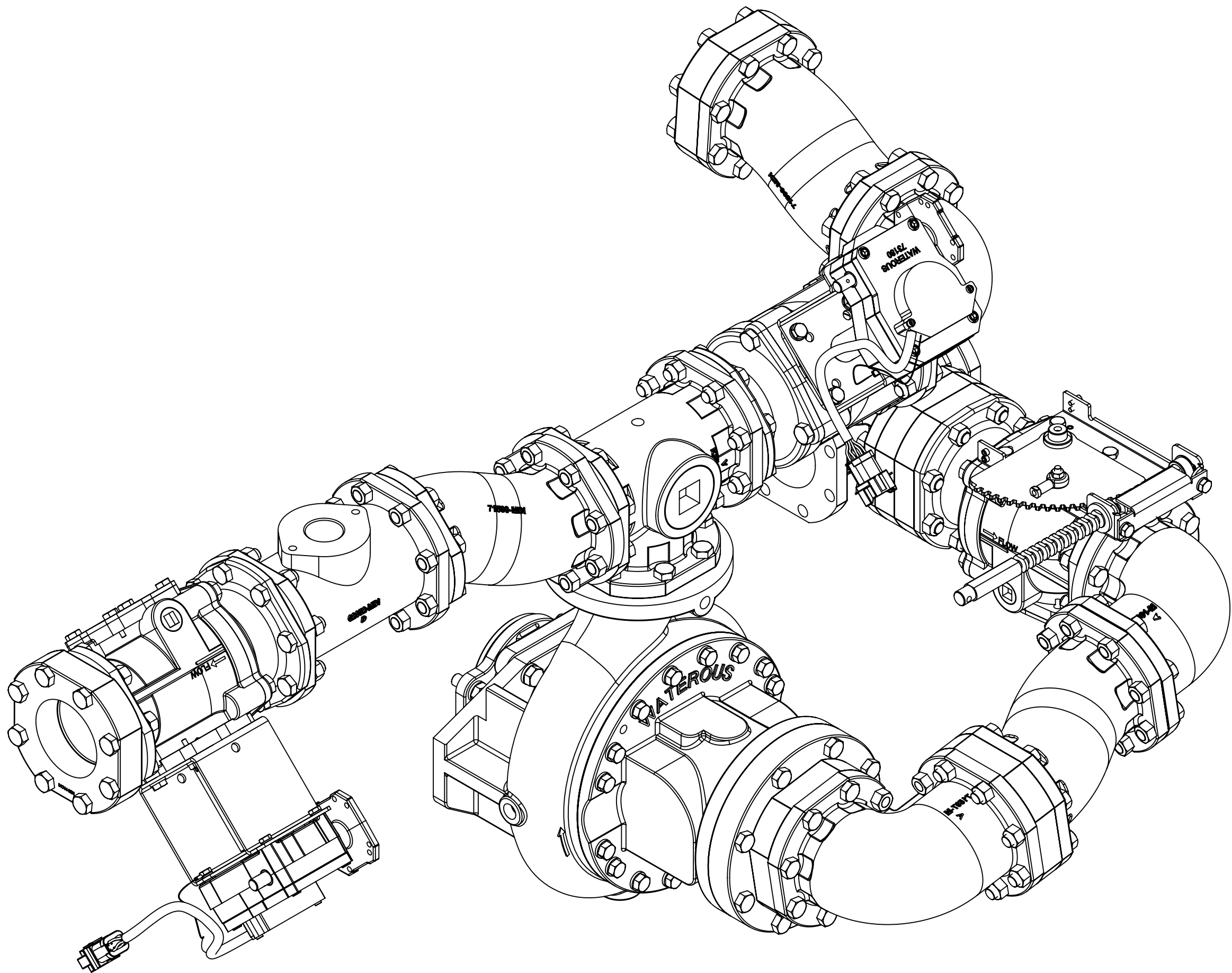


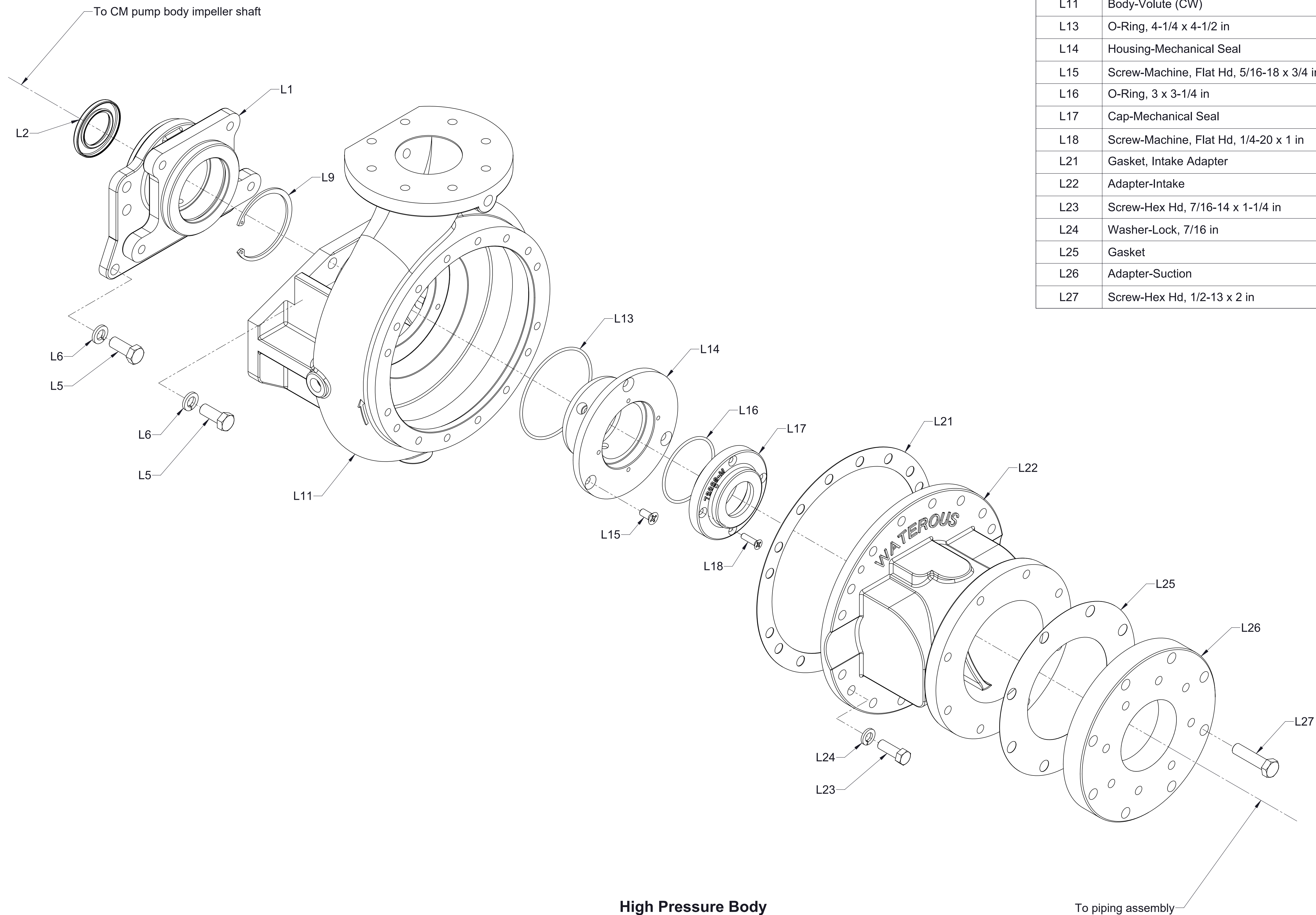
CM and CMU/CGV High-Rise Pump High Pressure Body and Piping

Service Parts List

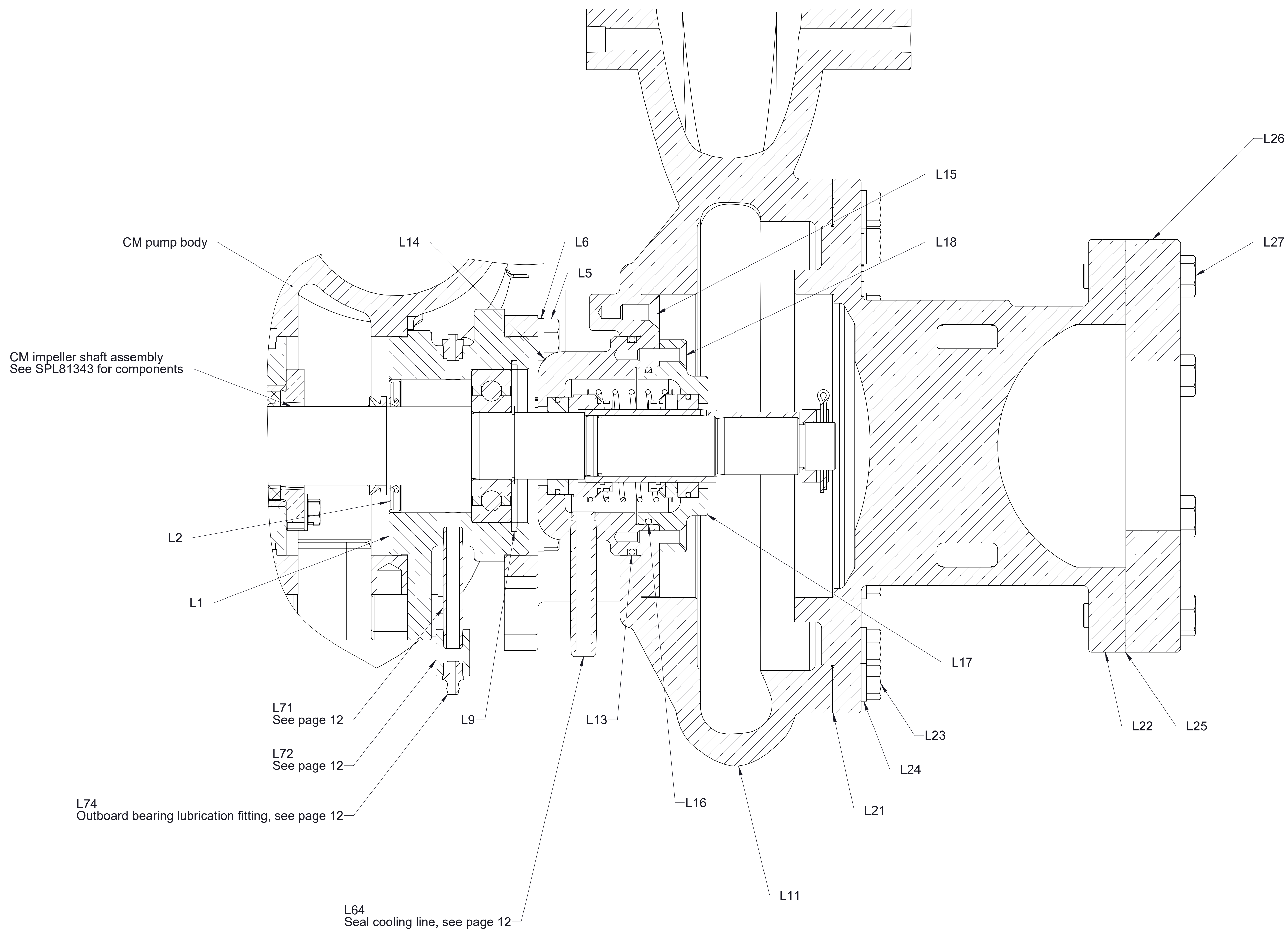
Index:					
Components	Assembly Number	See Page			
		Intake Piping	Discharge Piping	High Pressure Body	Cross-Section View of High Pressure Body
Elbow from CM/CMU pump discharge, no discharge valves	81344-1A	4	5	2	3
Tee from CM/CMU pump discharge, one discharge valve	81344-1B	6	7		
Tee from CM/CMU pump discharge, two discharge valves	81344-1C	8	9		
Tee from CM/CMU pump discharge, two discharge valves	81344-1D	8	10		
Tee from CM pump discharge, no discharge valves	81344-1E	8	11		
Seal Cooling Line		12 and 13			
Outboard Bearing Lubrication					
Drain and Vent Piping	Components	14			
	Open and Closed positions	15			



Note: When ordering parts, please supply pump serial number.

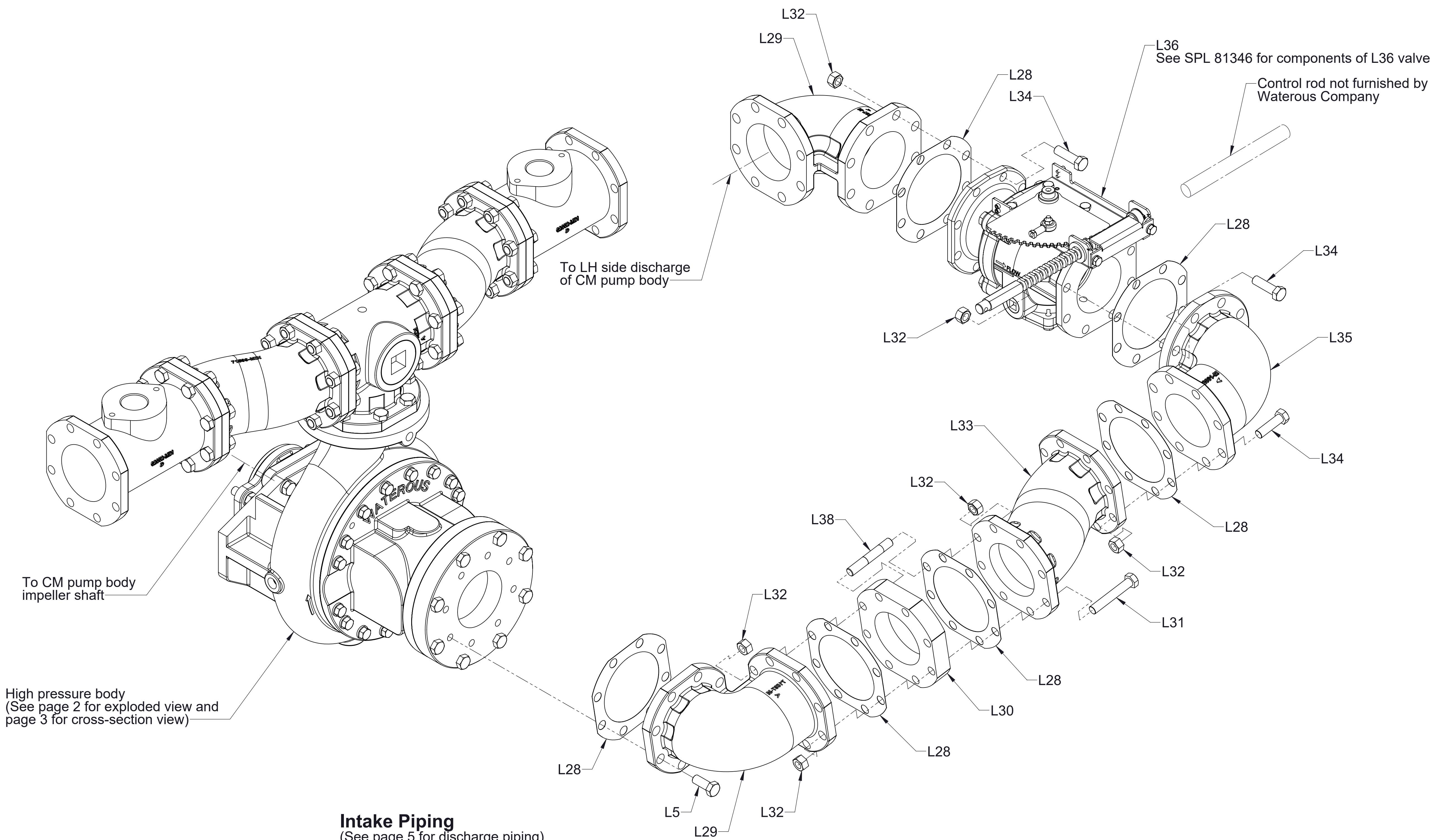


Ref No.	Description
L1	Adapter
L2	Seal-Oil, 1-5/8 x 2-3/4 in
L5	Screw-Hex Hd, 1/2-13 x 1-1/4 in
L6	Washer-Lock, 1/2 in
L9	Ring-Retaining, Internal, 3-5/32 in Bore Dia
L11	Body-Volute (CW)
L13	O-Ring, 4-1/4 x 4-1/2 in
L14	Housing-Mechanical Seal
L15	Screw-Machine, Flat Hd, 5/16-18 x 3/4 in
L16	O-Ring, 3 x 3-1/4 in
L17	Cap-Mechanical Seal
L18	Screw-Machine, Flat Hd, 1/4-20 x 1 in
L21	Gasket, Intake Adapter
L22	Adapter-Intake
L23	Screw-Hex Hd, 7/16-14 x 1-1/4 in
L24	Washer-Lock, 7/16 in
L25	Gasket
L26	Adapter-Suction
L27	Screw-Hex Hd, 1/2-13 x 2 in

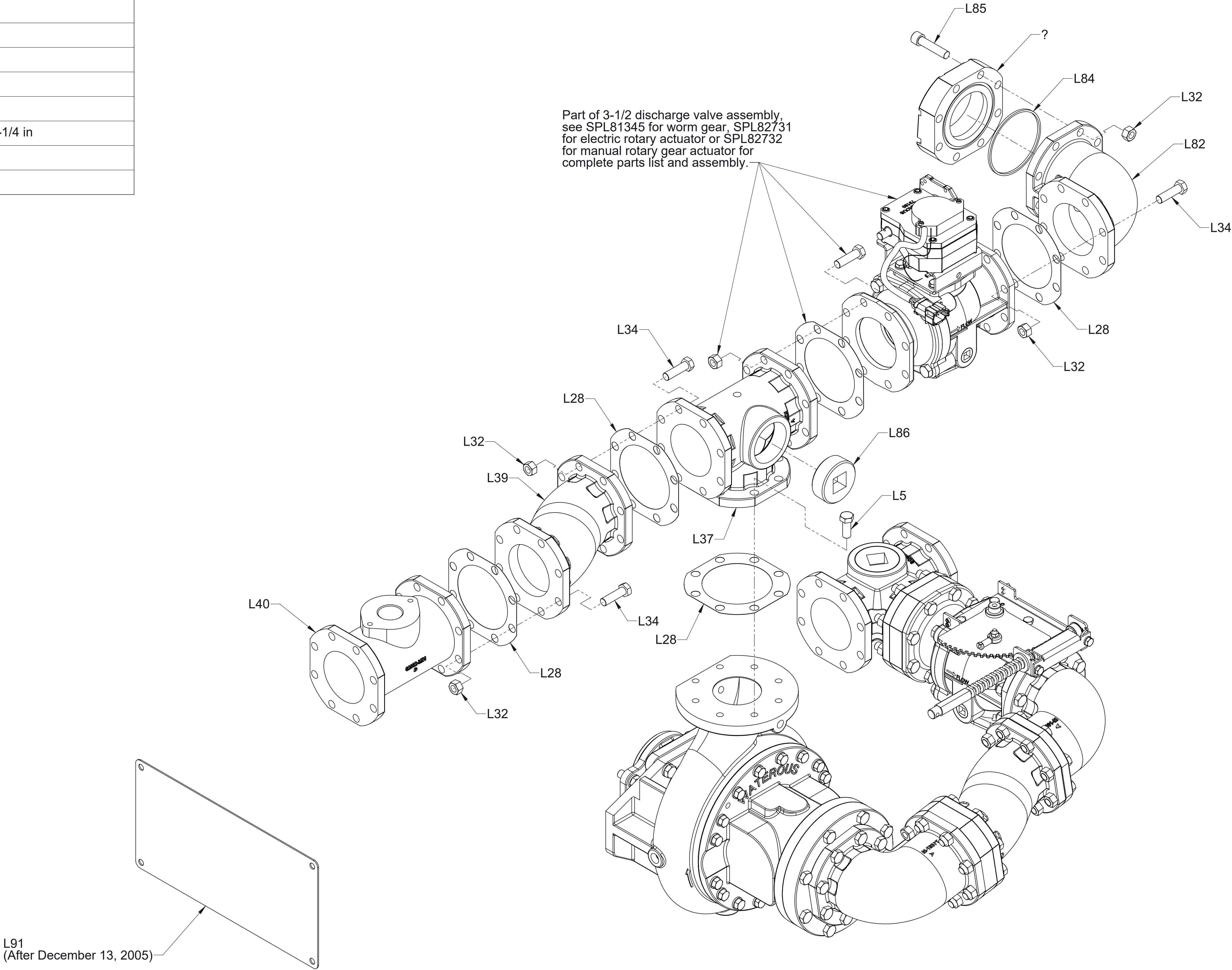


Cross-Section View of High Pressure Body
(See page 2 and 12 for Bill Of Materials)

Ref No.	Description
L5	Screw-Hex Hd, 1/2-13 x 1-1/4 in
L28	Gasket-Flange, 3-1/2, 8-Bolt
L29	Elbow-Flanged
L30	Spacer
L31	Screw-Hex Hd, 1/2-20 x 3 in
L32	Nut-Hex, 1/2-20
L33	Extension-Discharge
L34	Screw-Hex Hd, 1/2-20 x 1-3/4 in
L35	Elbow-Flanged
L36	Intake Ball Valve Assembly
L38	Stud-UNF x UNF, 1/2 x 3-1/4 in



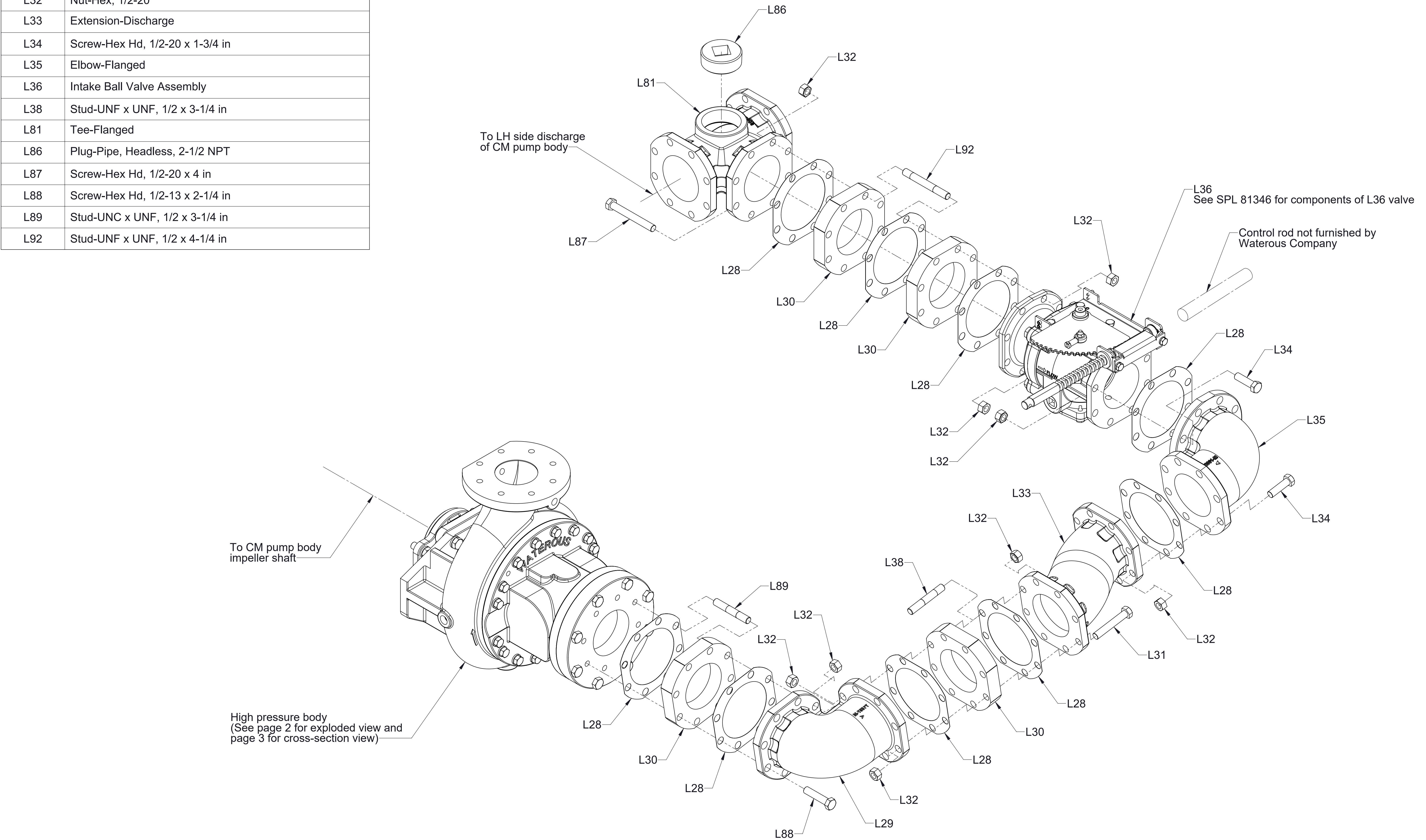
Ref No.	Description
L5	Screw-Hex Hd, 1/2-13 x 1-1/4 in
L28	Gasket-Flange, 3-1/2, 8-Bolt
L32	Nut-Hex, 1/2-20
L34	Screw-Hex Hd, 1/2-20 x 1-3/4 in
L37	Tee-Flanged
L39	Extension-Discharge
L40	Extension-Flow Meter
L82	Elbow-Flanged
L83	Flat Tapped 3 NPT
L84	Gasket - Flange, Discharge
L85	Screw-Cap, Hex Soc Hd, 1/2-20 x 2-1/4 in
L86	Plug-Pipe, Headless, 2-1/2 NPT
L91	Panel Plate



**Tee from CM Discharge (Discharge Piping),
one discharge valve (see page 6 for intake piping)**

Assembly 81344-1B

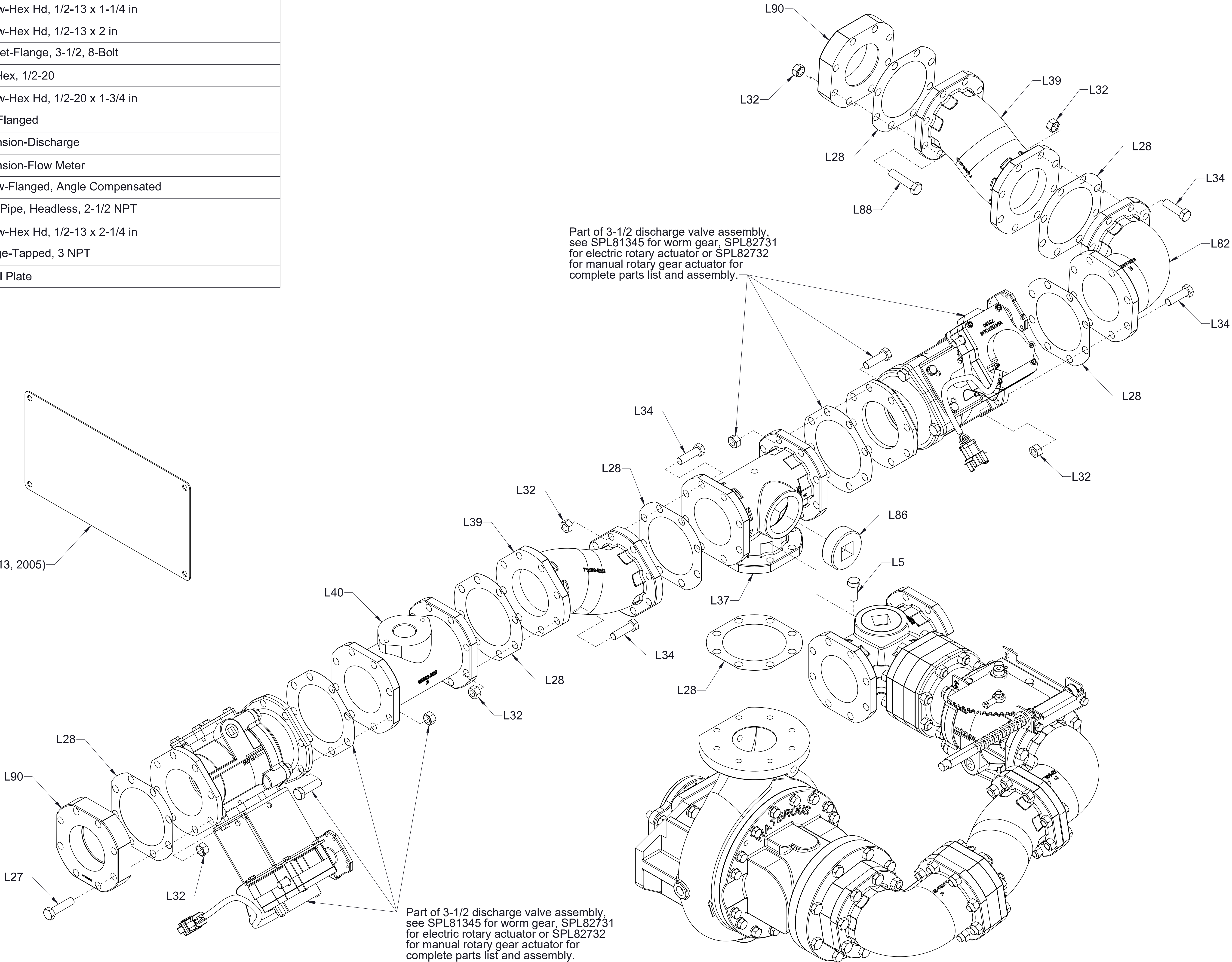
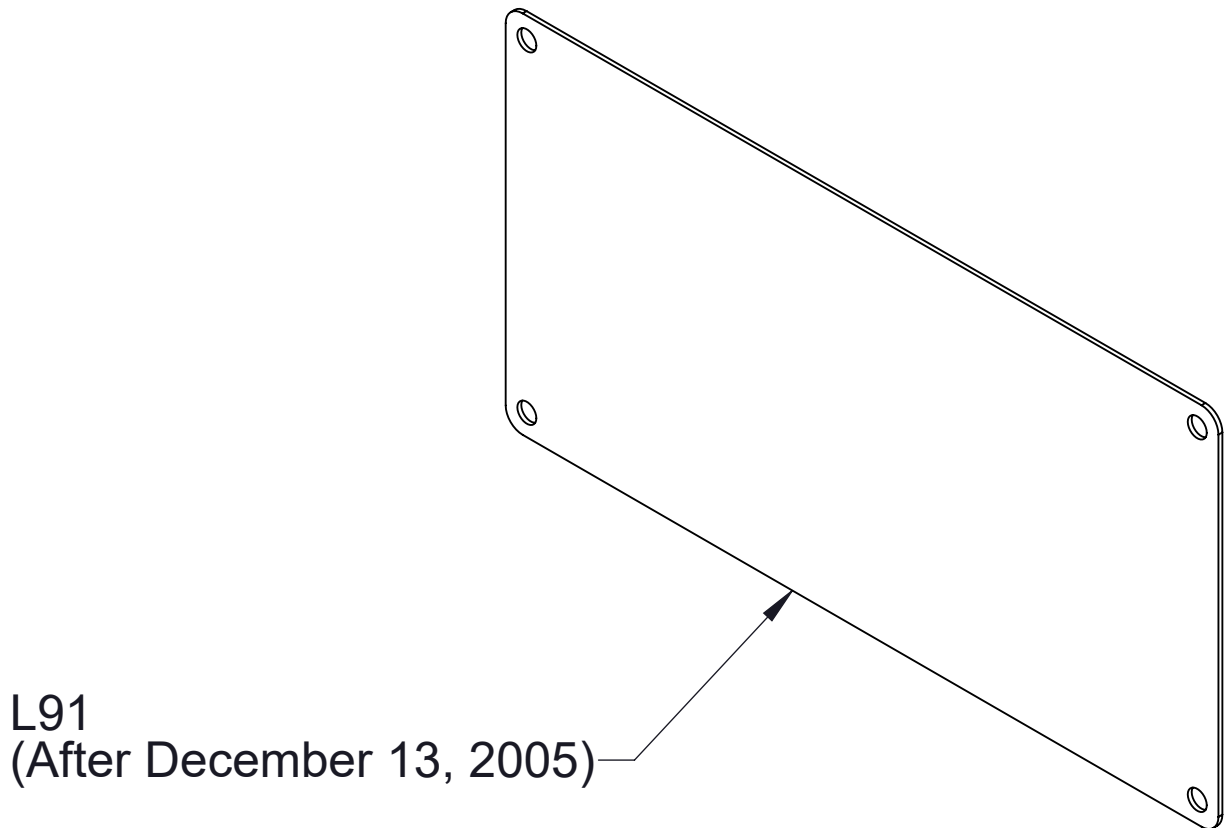
Ref No.	Description
L28	Gasket-Flange, 3-1/2, 8-Bolt
L29	Elbow-Flanged
L30	Spacer
L31	Screw-Hex Hd, 1/2-20 x 3 in
L32	Nut-Hex, 1/2-20
L33	Extension-Discharge
L34	Screw-Hex Hd, 1/2-20 x 1-3/4 in
L35	Elbow-Flanged
L36	Intake Ball Valve Assembly
L38	Stud-UNF x UNF, 1/2 x 3-1/4 in
L81	Tee-Flanged
L86	Plug-Pipe, Headless, 2-1/2 NPT
L87	Screw-Hex Hd, 1/2-20 x 4 in
L88	Screw-Hex Hd, 1/2-13 x 2-1/4 in
L89	Stud-UNC x UNF, 1/2 x 3-1/4 in
L92	Stud-UNF x UNF, 1/2 x 4-1/4 in



Intake Piping

Assembly 81344-1C (See page 9 for discharge piping)
 Assembly 81344-1D (See page 10 for discharge piping)
 Assembly 81344-1E (See page 11 for discharge piping)

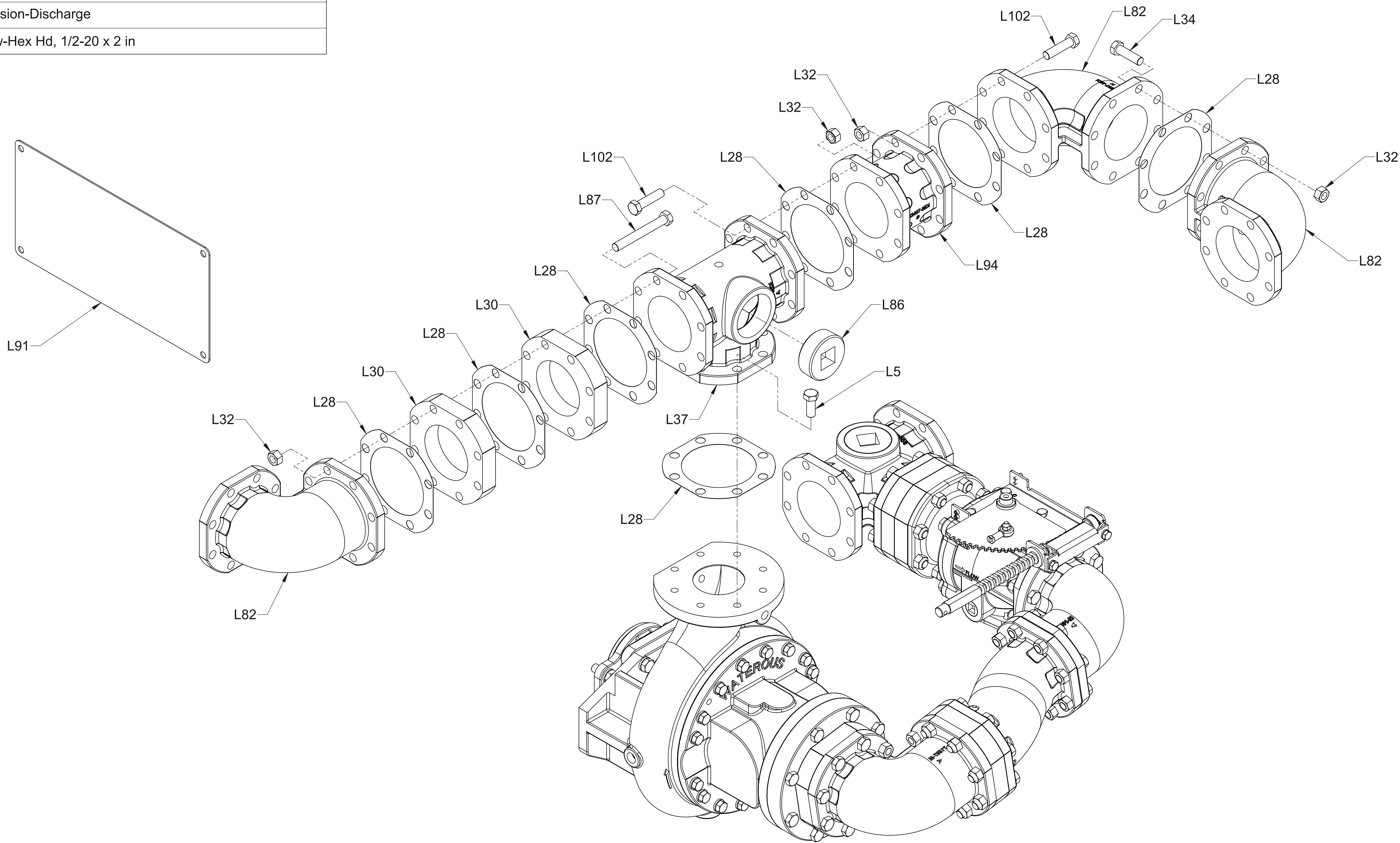
Ref No.	Description
L5	Screw-Hex Hd, 1/2-13 x 1-1/4 in
L27	Screw-Hex Hd, 1/2-13 x 2 in
L28	Gasket-Flange, 3-1/2, 8-Bolt
L32	Nut-Hex, 1/2-20
L34	Screw-Hex Hd, 1/2-20 x 1-3/4 in
L37	Tee-Flanged
L39	Extension-Discharge
L40	Extension-Flow Meter
L82	Elbow-Flanged, Angle Compensated
L86	Plug-Pipe, Headless, 2-1/2 NPT
L88	Screw-Hex Hd, 1/2-13 x 2-1/4 in
L90	Flange-Tapped, 3 NPT
L91	Panel Plate



**Tee from CM Discharge (Discharge Piping),
two discharge valves (see page 8 for intake piping)**

Assembly 81344-1C

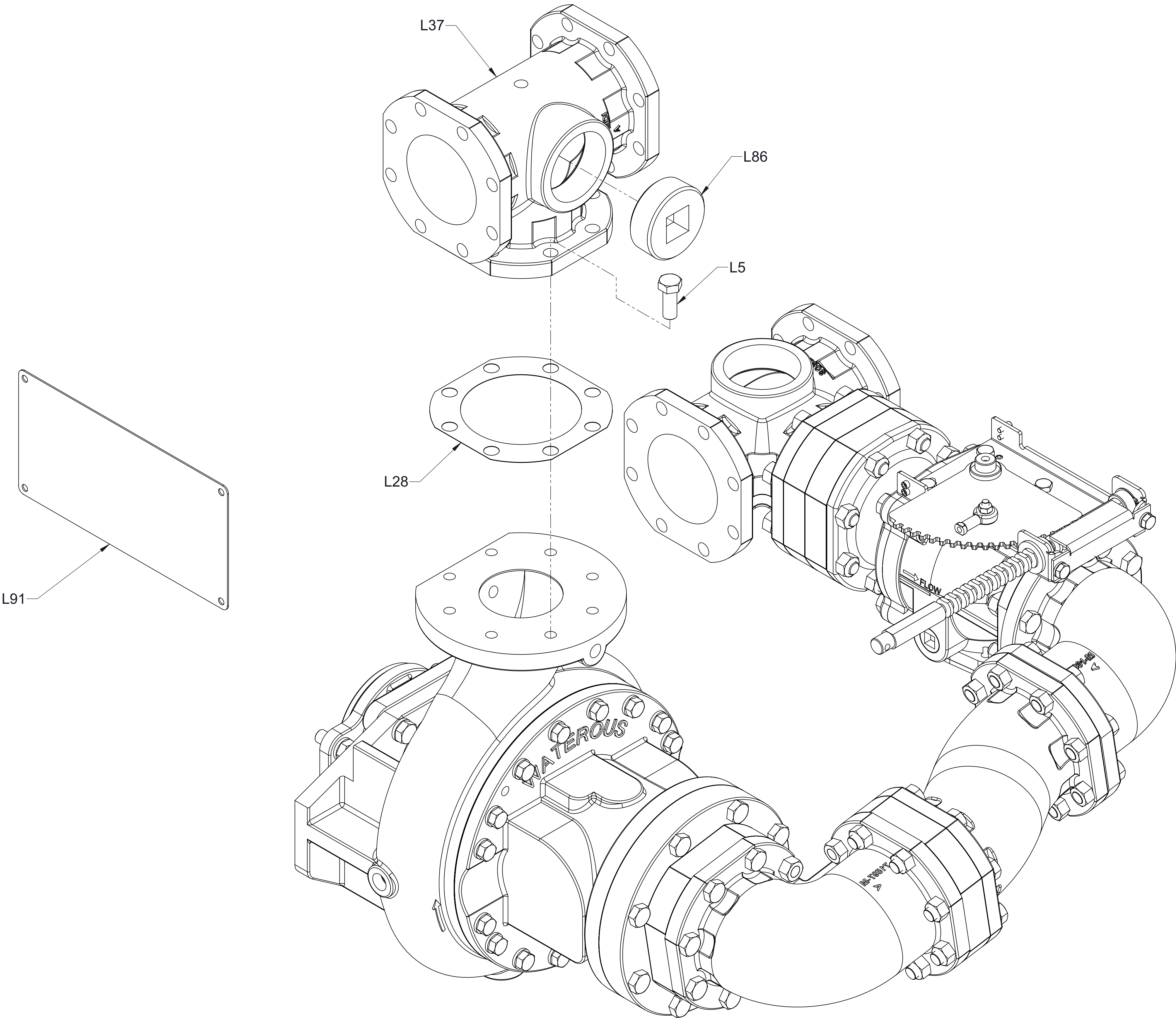
Ref No.	Description
L5	Screw-Hex Hd, 1/2-13 x 1-1/4 in
L28	Gasket-Flange, 3-1/2, 8-Bolt
L30	Spacer
L32	Nut-Hex, 1/2-20
L34	Screw-Hex Hd, 1/2-20 x 1-3/4 in
L37	Tee-Flanged
L82	Elbow-Flanged
L86	Plug-Pipe, Headless, 2-1/2 NPT
L87	Screw-Hex Hd, 1/2-20 x 4 in
L91	Panel Plate
L94	Extension-Discharge
L102	Screw-Hex Hd, 1/2-20 x 2 in



**Tee from CM Discharge (Discharge Piping),
two discharge valves (see page 8 for intake piping)**

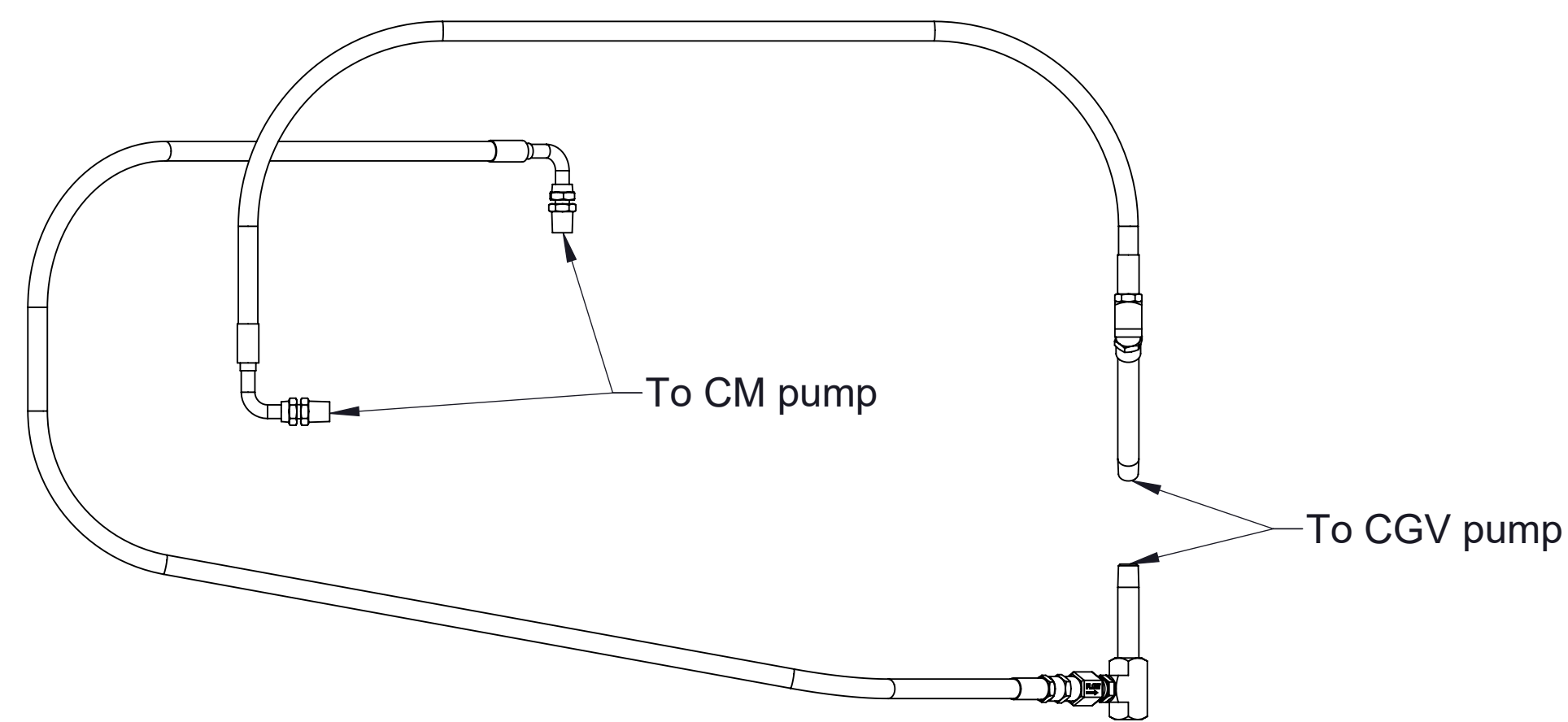
Assembly 81344-1D

Ref No.	Description
L5	Screw-Hex Hd, 1/2-13 x 1-1/4 in
L28	Gasket-Flange, 3-1/2, 8-Bolt
L37	Tee-Flanged
L86	Plug-Pipe, Headless, 2-1/2 NPT
L91	Panel Plate

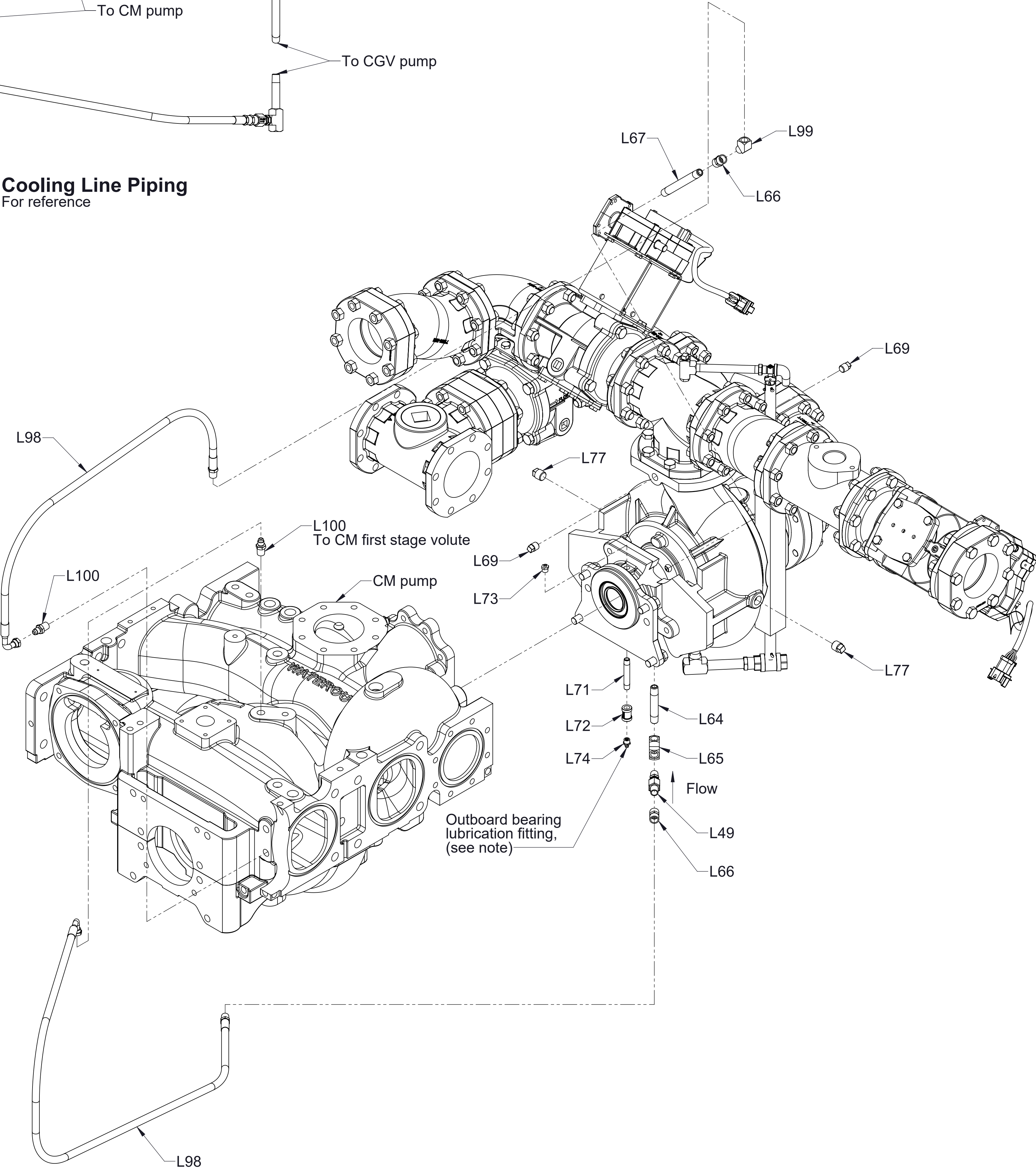


Tee from CM Discharge (Discharge Piping),
no discharge valves (see page 8 for intake piping)

Assembly 81344-1E



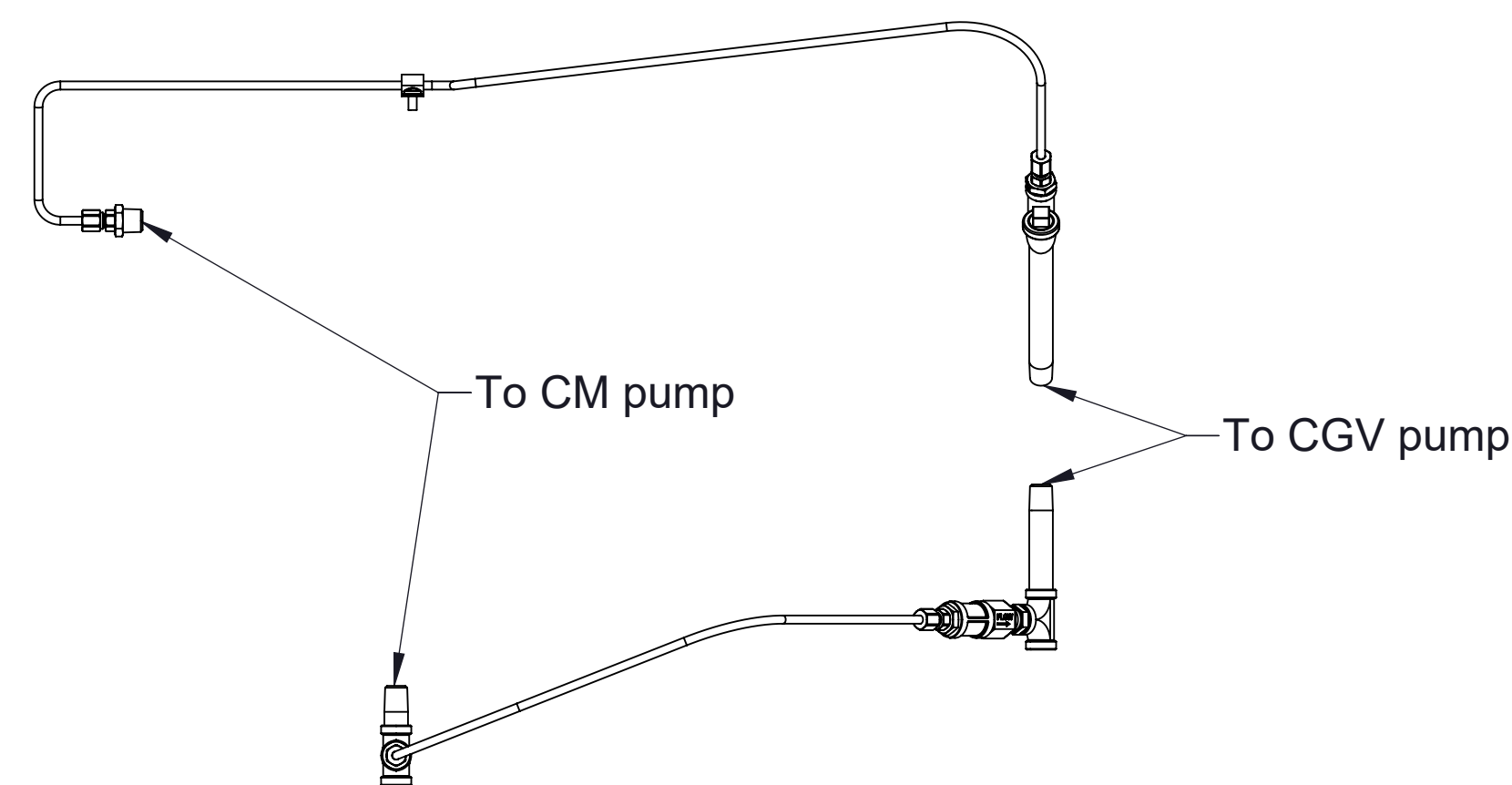
Cooling Line Piping
For reference



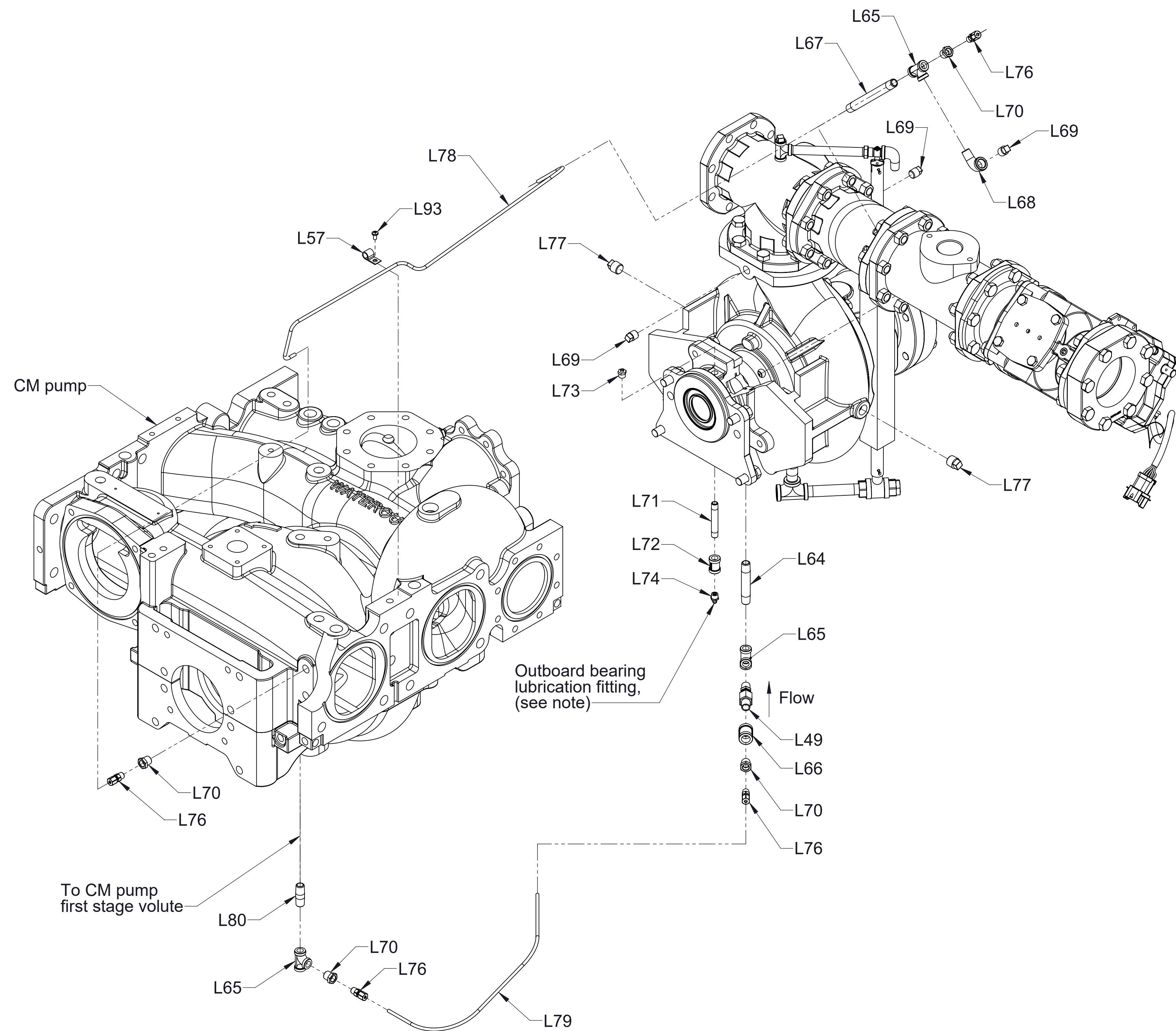
Ref No.	Description
L49	Valve-Ball Check
L64	Nipple-Pipe, 1/4 NPT x 3 in
L65	Tee-Pipe, 1/4 NPT
L66	Coupling-Hex, 1/4 NPT
L67	Nipple-Pipe, 1/4 NPT x 5 in
L69	Plug-Pipe, Square Hd, 1/4 NPT
L71	Nipple-Pipe, 1/8 NPT x 2-1/2 in
L72	Coupling-Pipe, 1/8 NPT
L73	Fitting-Lube, Relief
L74	Fitting-Lubrication
L77	Plug-Pipe, Square Hd, 3/8 NPT
L98	Hose Assembly, 1/2 NPT x 1/4 FJIC, 90°
L99	Elbow-Street, 45°, 1/4 NPT
L100	Adapter-1/4 NPT x 1/4 MJIC

Outboard Bearing Lubrication
Add a good quality, medium consistency, ball bearing grease into fitting L74 until it comes out of relief fitting L73.

Seal Cooling Line Piping and Outboard Bearing Lubrication
(After November 25, 2013)



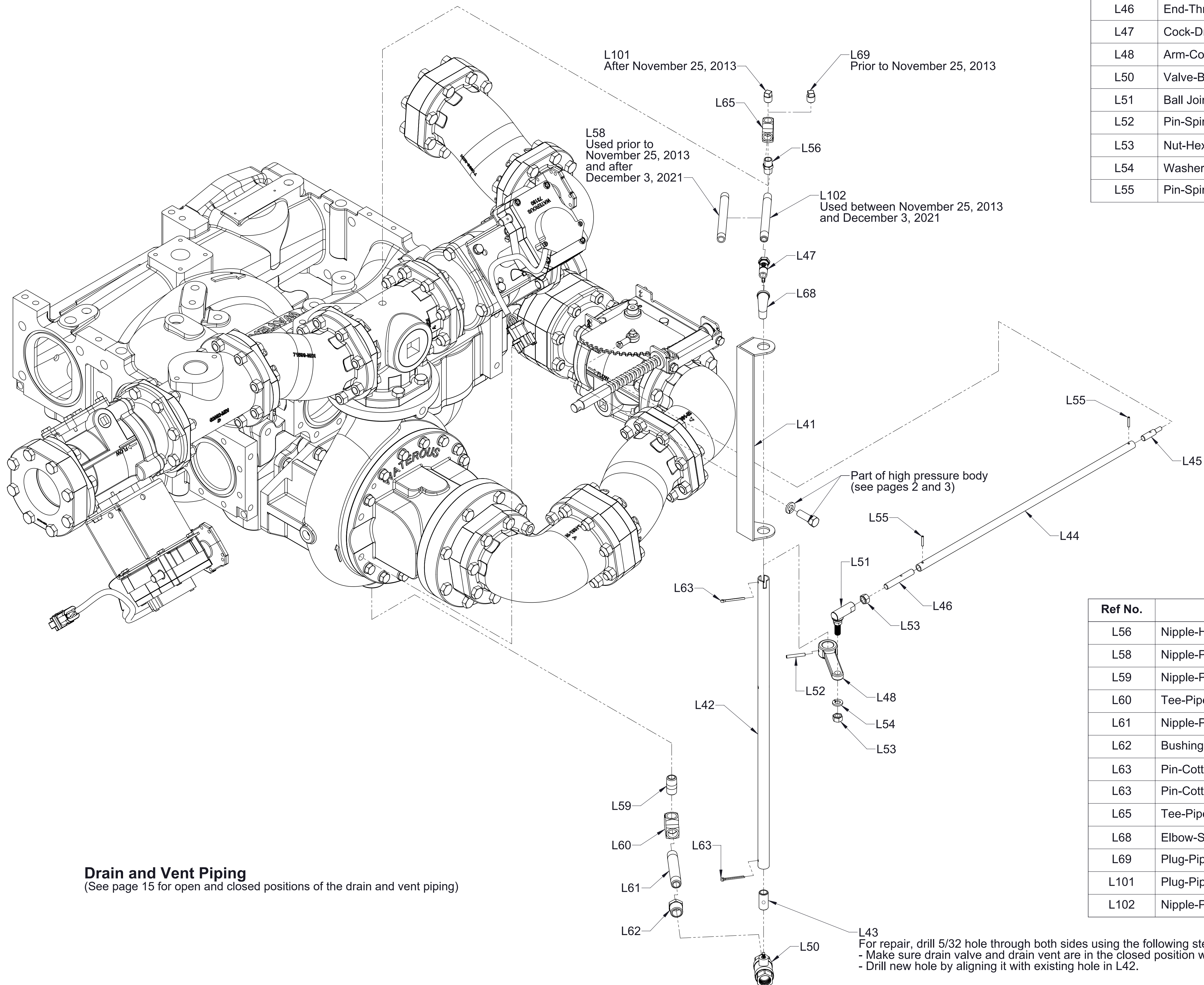
Cooling Line Piping
For reference



Seal Cooling Line Piping and Outboard Bearing Lubrication
(Prior to November 25, 2013)

Ref No.	Description
L49	Valve-Ball Check
L57	Clamp-Wire
L64	Nipple-Pipe, 1/4 NPT x 3 in
L65	Tee-Standard, Pipe, 1/4 NPT
L66	Coupling-Pipe, 1/4 NPT
L67	Nipple-Pipe, 1/4 NPT NPT x 5-1/2 in
L68	Elbow-Street, 90°, 1/4 NPT
L69	Plug-Pipe, Square Hd, 1/4 NPT
L70	Bushing-Reducing, Pipe, 1/4 x 1/8 NPT
L71	Nipple-Pipe, 1/8 NPT x 2-1/2 in
L72	Coupling-Pipe, 1/8 NPT
L73	Fitting-Lube, Relief
L74	Fitting-Lubrication
L76	Adapter-Straight, Compression, 3/16 Tube X 1/8 MNPT
L77	Plug-Pipe, Square Hd, 3/8 NPT
L78	Tube, 3/16 x 28-3/4 in
L79	Tubing, 3/16 x 15-1/4 in
L80	Nipple-Pipe, 1/4 NPT x 1-1/2 in
L93	Screw-Machine, Pan Hd, #10-24 x 3/8 in

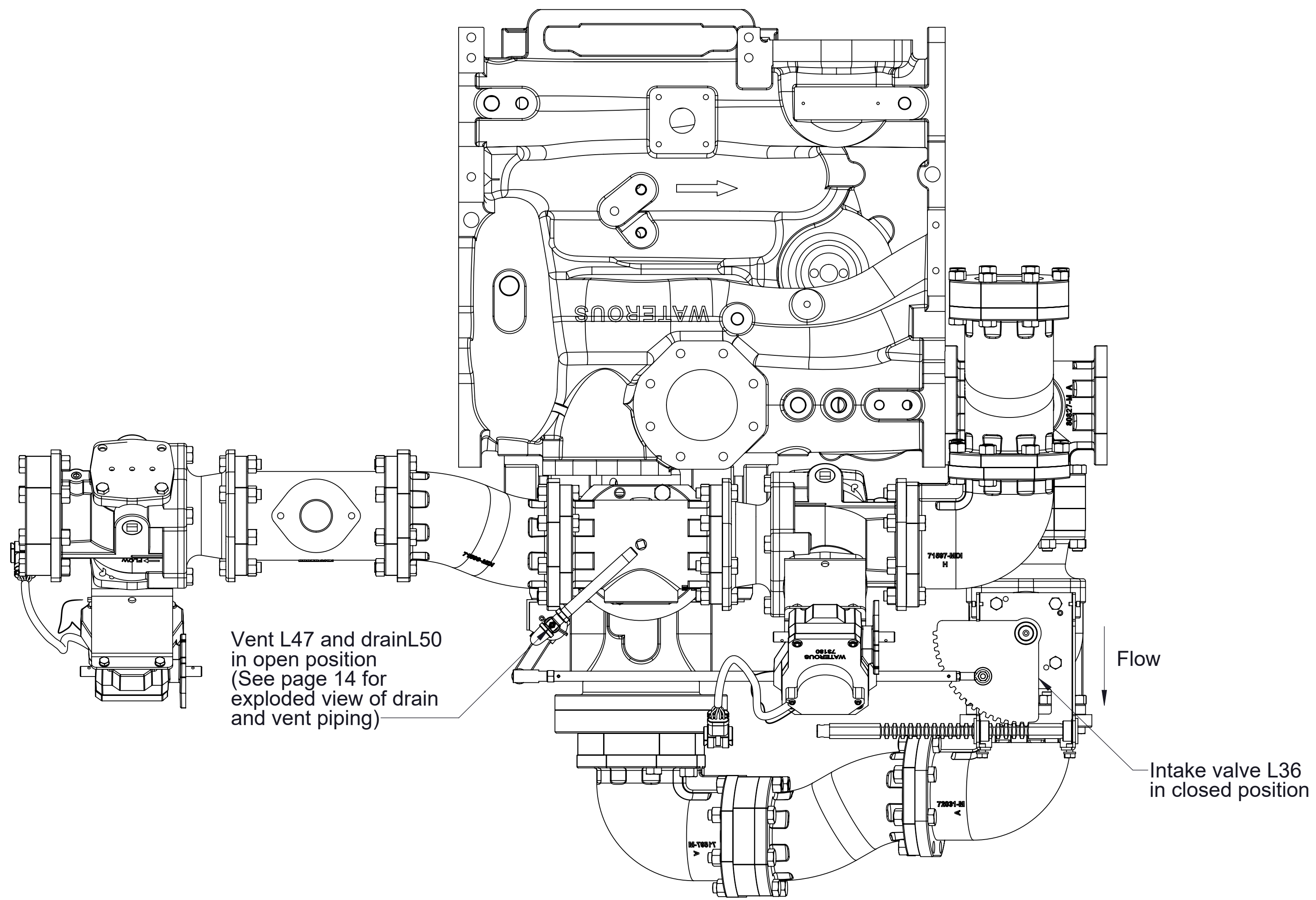
Outboard Bearing Lubrication
Add a good quality, medium consistency, ball bearing grease into fitting L74 until it comes out of relief fitting L73.



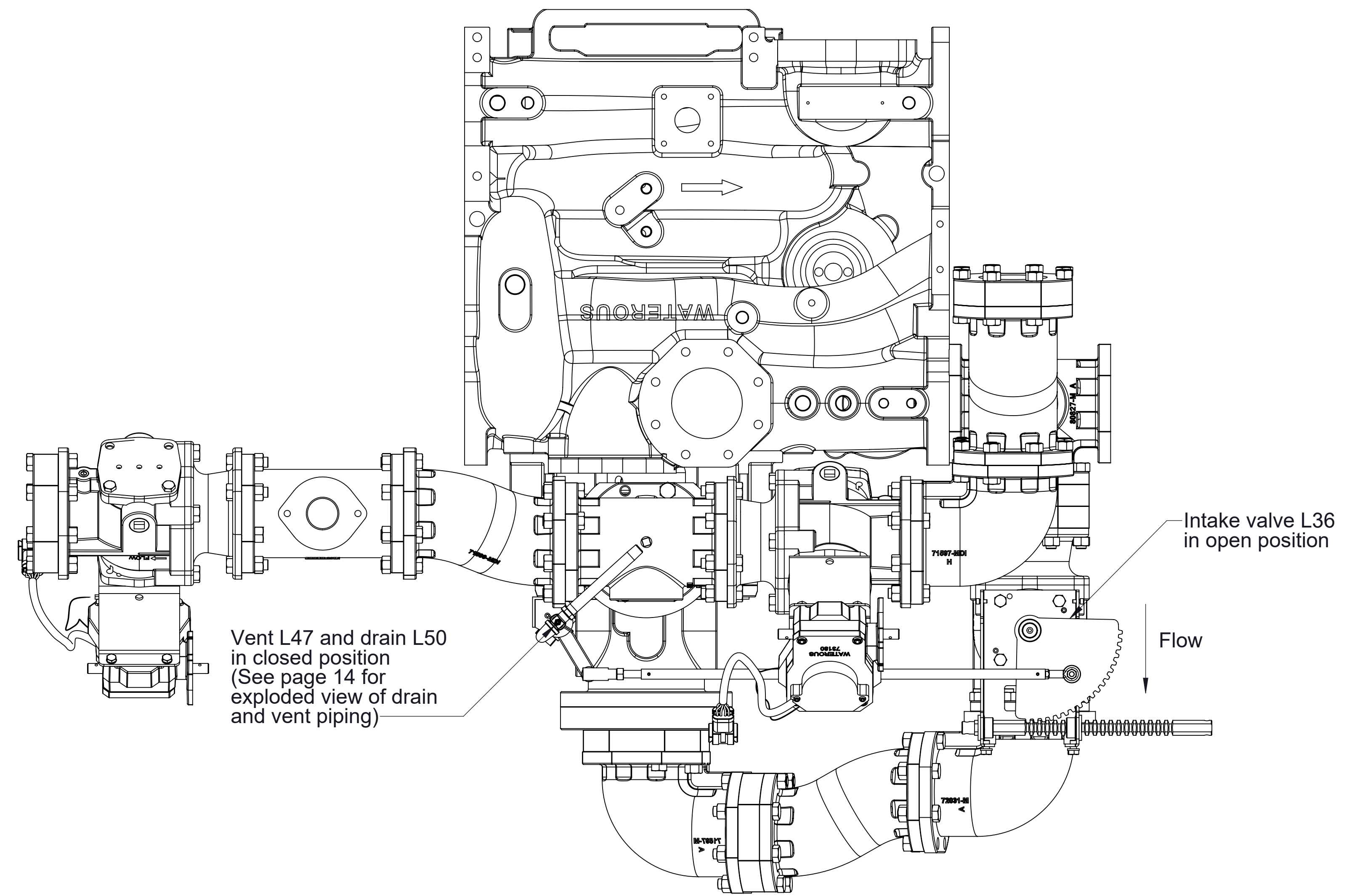
Drain and Vent Piping
(See page 15 for open and closed positions of the drain and vent piping)

Ref No.	Description
L41	Support-Drain Rod
L42	Tube-Operating
L43	End-Tube
L44	Tube-Actuator
L45	End-Threaded, 1/4-28
L46	End-Threaded, 3/8-24
L47	Cock-Drain, 1/4 NPT
L48	Arm-Control
L50	Valve-Ball, 1/2 in
L51	Ball Joint, 3/8-24
L52	Pin-Spirol, 3/16 x 1-1/4 in
L53	Nut-Hex, 3/8-24
L54	Washer-Lock, 3/8 in
L55	Pin-Spirol, 1/8 x 3/4 in

Ref No.	Description
L56	Nipple-Hex, 1/4 NPT
L58	Nipple-Pipe, 1/4 NPT x 5 in
L59	Nipple-Pipe, 3/8 NPT x 1-1/2 in
L60	Tee-Pipe, 3/8 NPT
L61	Nipple-Pipe, 3/8 NPT x 3-1/2 in
L62	Bushing-Reducing, Pipe, 1/2 x 3/8 NPT
L63	Pin-Cotter, 1/8 x 1-1/4 in
L63	Pin-Cotter, 3/32 x 1-1/4 in (Prior to September 23, 2019)
L65	Tee-Pipe, 1/4 NPT
L68	Elbow-Street, 90°, 1/4 NPT
L69	Plug-Pipe, Square Hd, 1/4 NPT
L101	Plug-Pipe, Square Hd, 1/4 NPT
L102	Nipple-Pipe, 1/4 NPT x 5 in



Intake Valve Closed



Intake Valve Open

Drain and Vent Piping
Open and closed positions