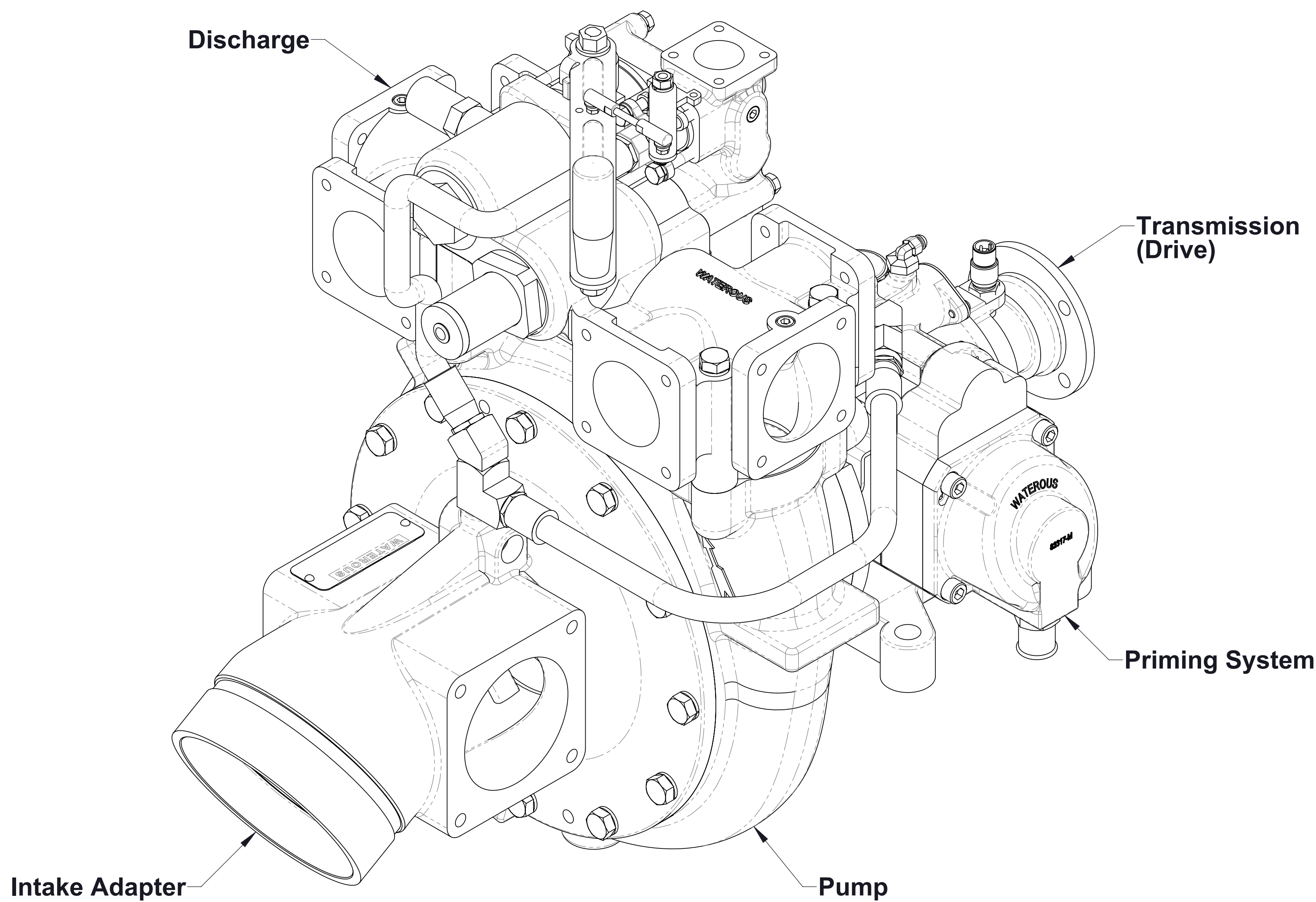
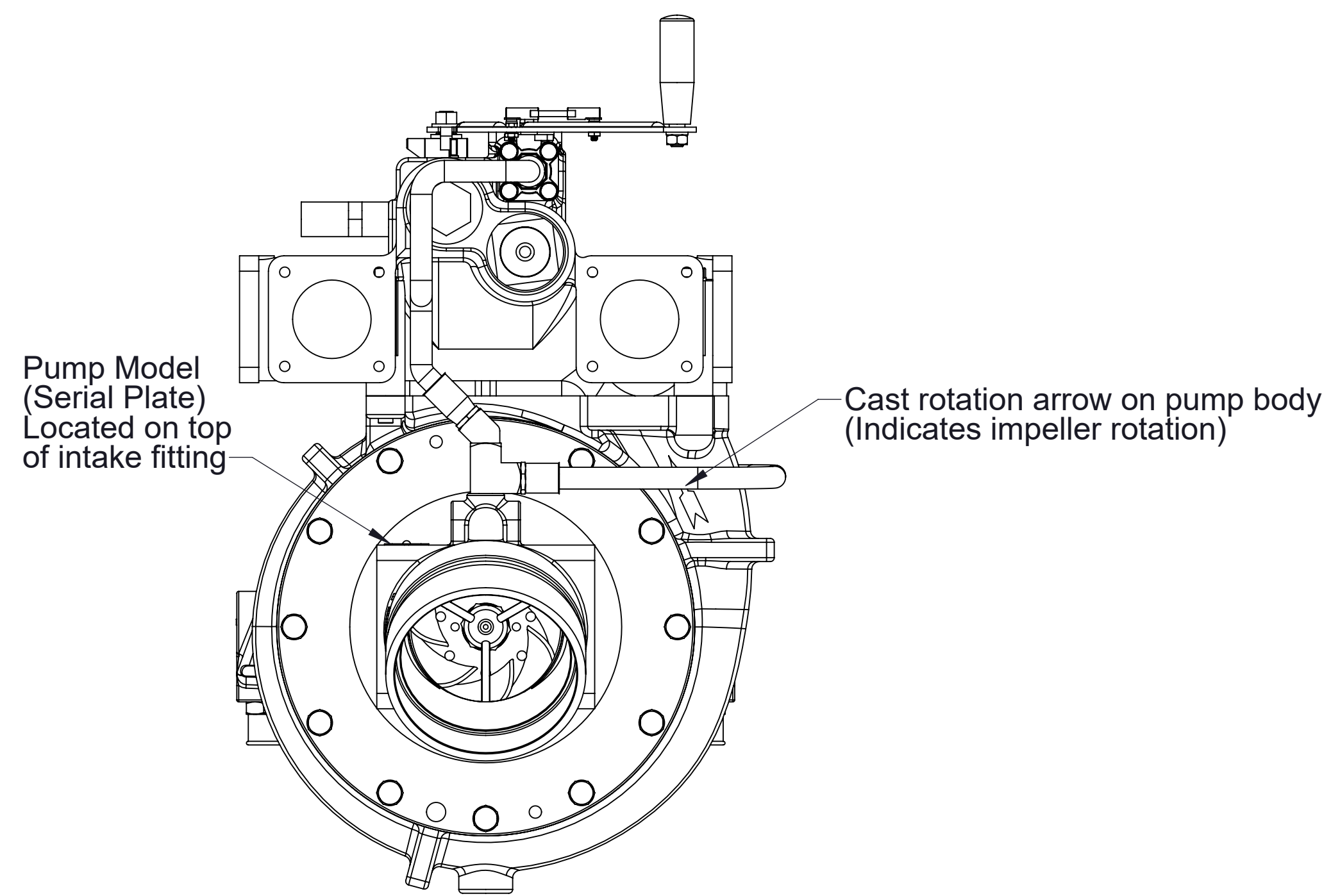


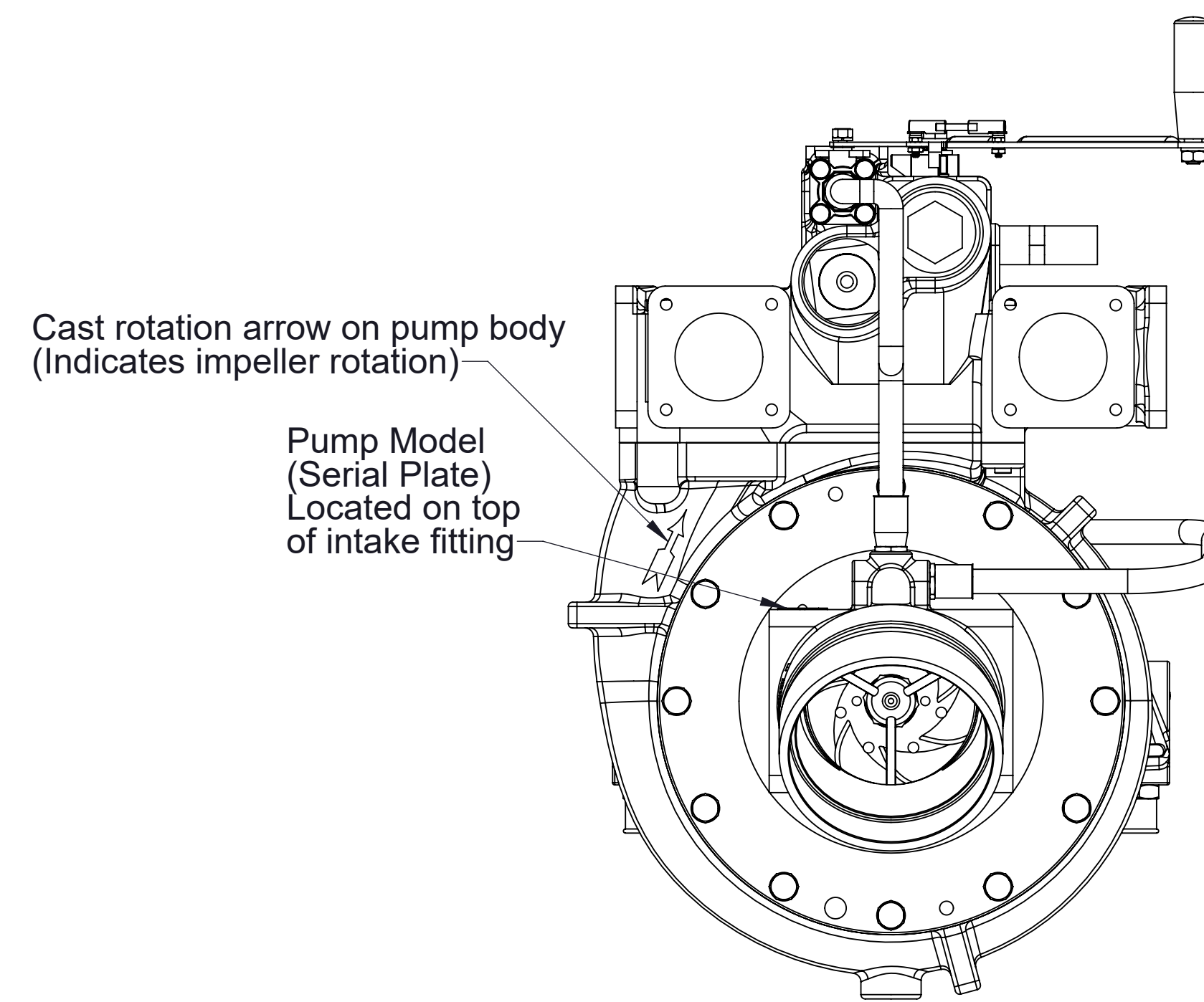
HL200/300 Series Fire Pump Service Parts List



Index:					
Component		See Pages			
		Complete Pump and Transmission Model (Located on pump serial plate)			
		Direct Drive (D Series) HL200D, HL300D		Gear Drive (K Series) HL200K, HL300K	
		Input Rotation		Input Rotation	
		CW	CCW	CW	CCW
Determining Pump Model and Input Rotation		2			
Intake Adapter		3			
Discharge	Crossover Valve	4	5	5	4
	Manifold	6	7	7	6
Priming System	Primers		8		
	PIV (Priming Isolation Valve)	With	9		
		Without	10		
Pump	Body and Impellers		11		
	Impeller Shaft and Pedestal		12	13	
	Cross-Section View		14	15	
Transmission (Drive)		12	15		
Optional Items	Auxiliary Intake and Discharge Fittings		See SPL83156		
	RTP Foam System		See SPL83157		
	Control Panel		See SPL83158		
	Gauges and Tank Level Monitors				

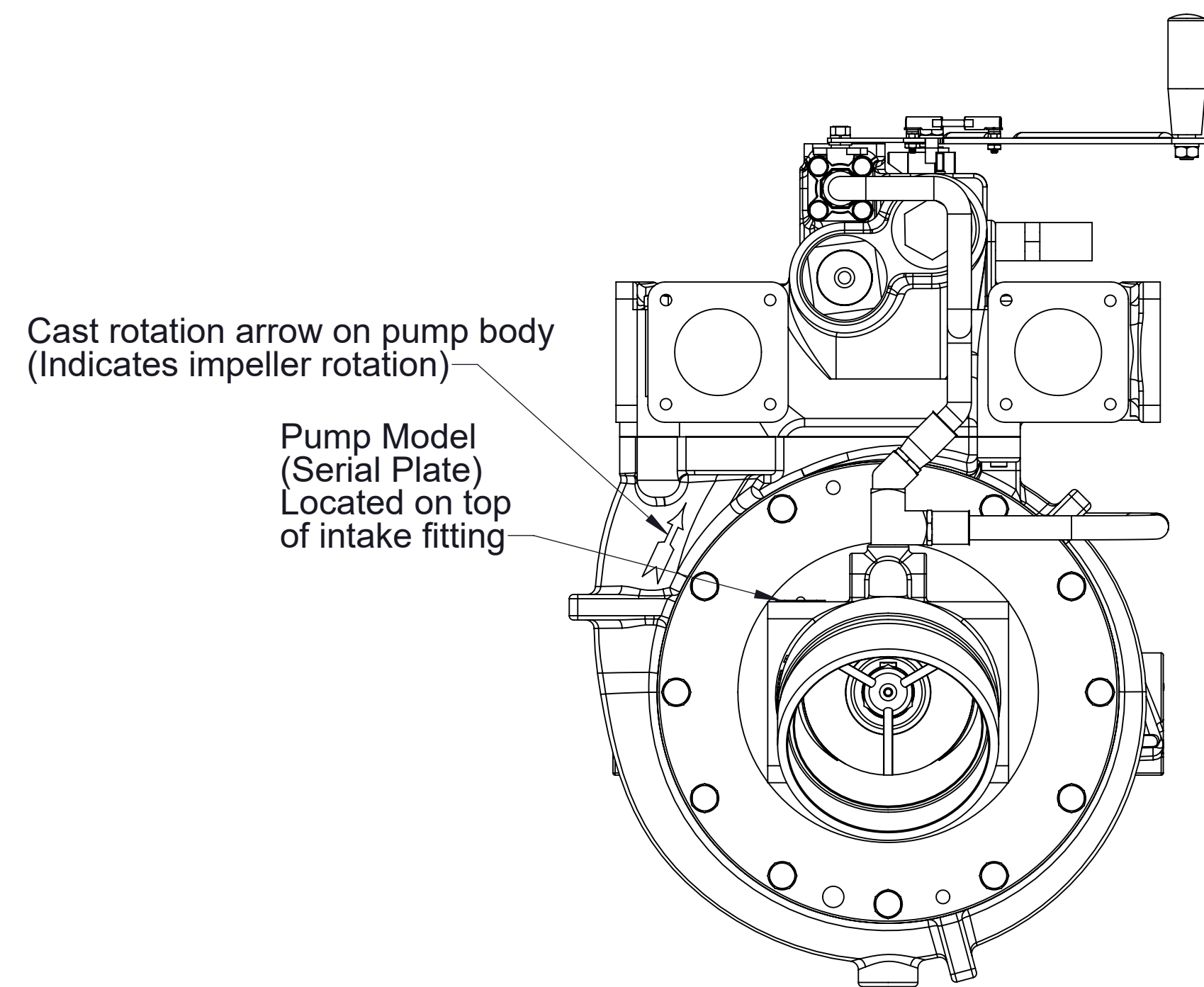


Clockwise (CW) Input Rotation
Counter-clockwise (CCW) impeller rotation

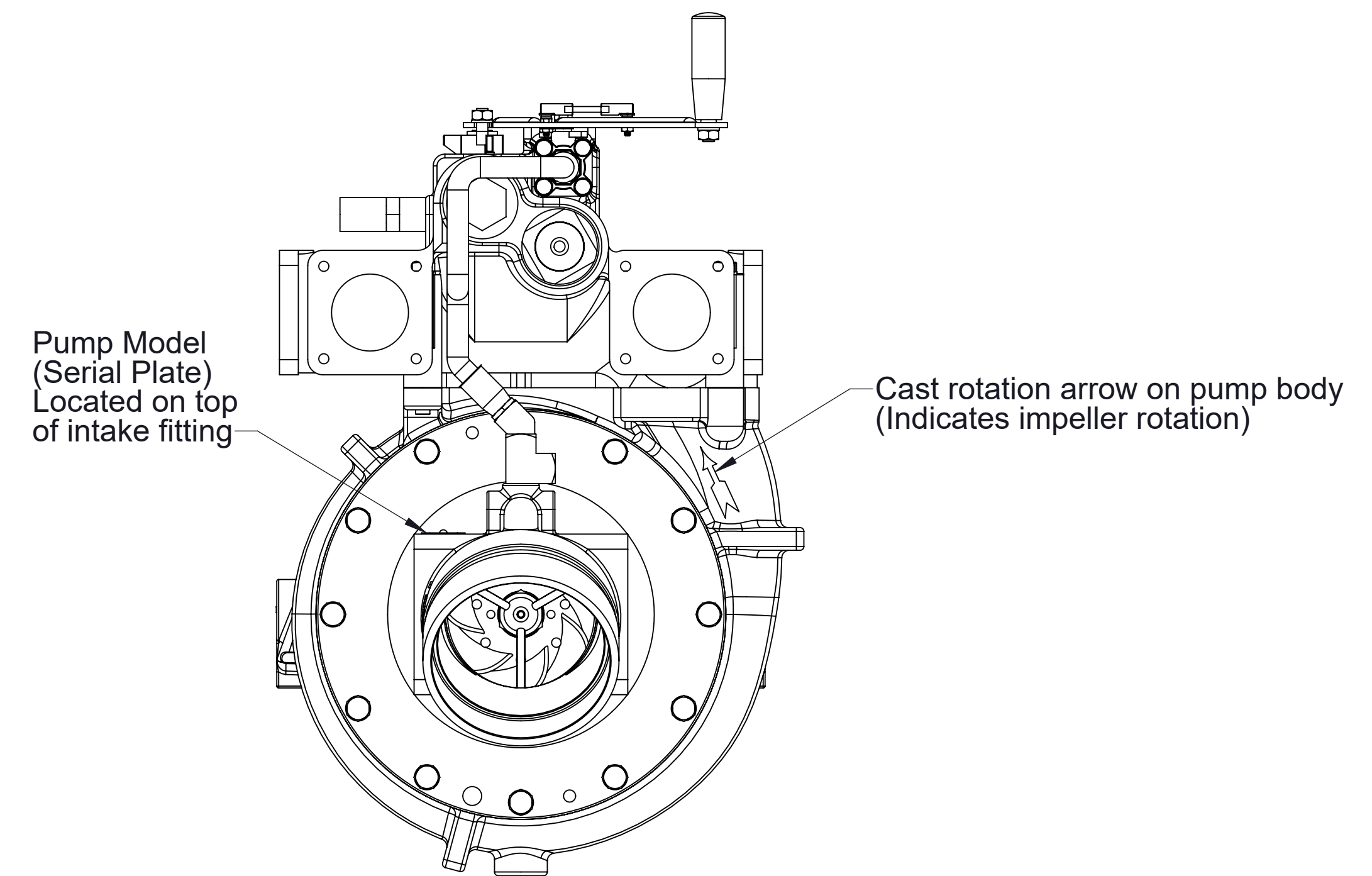


Counter-Clockwise (CCW) Input Rotation
Clockwise (CW) impeller rotation

Models HL200D and HL300D



Clockwise (CW) Input Rotation
Clockwise (CW) impeller rotation



Counter-Clockwise (CCW) Input Rotation
Counter-clockwise (CCW) impeller rotation

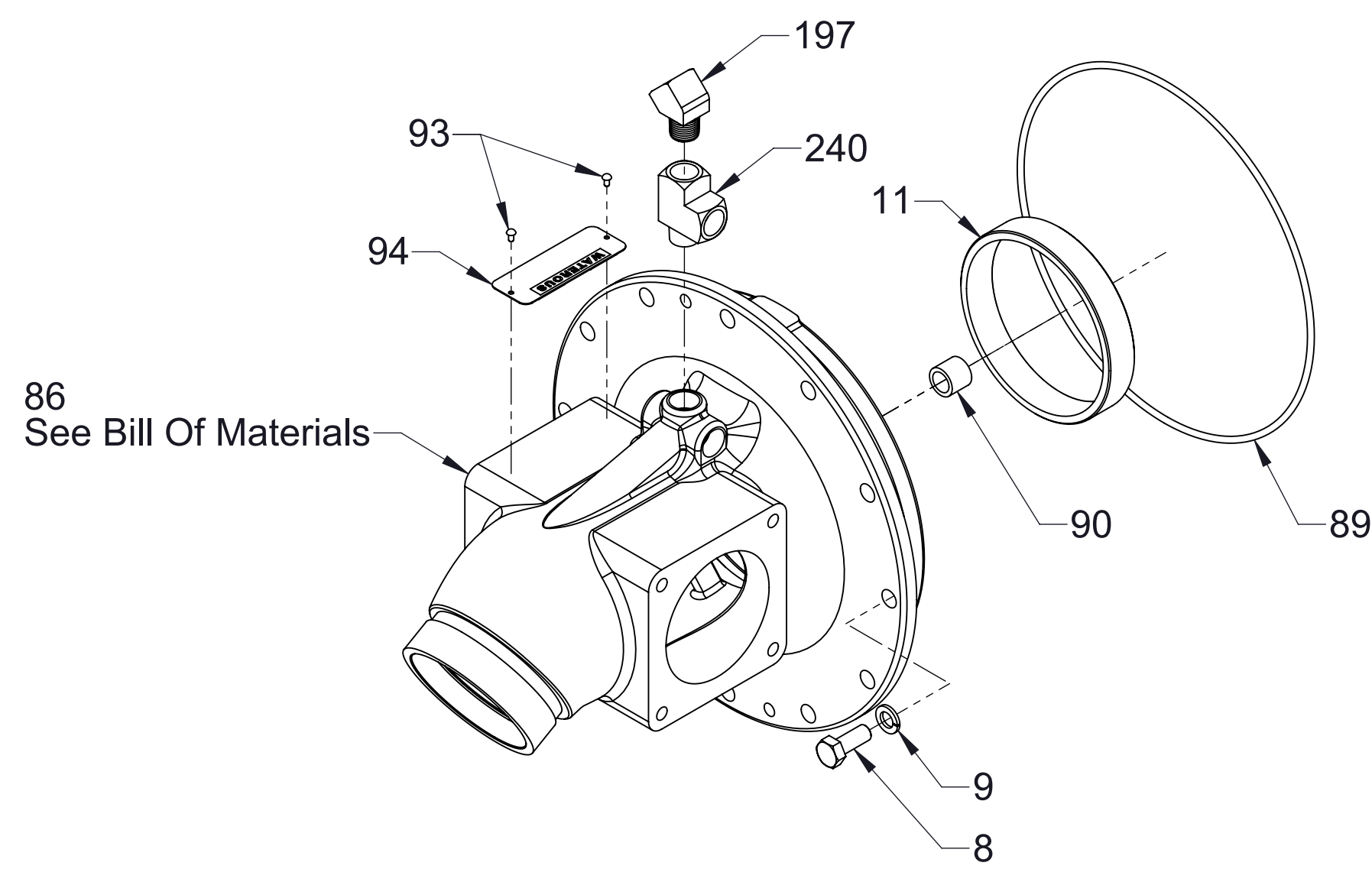
Models HL200K and HL300K

Determining Pump Model and Input Rotation

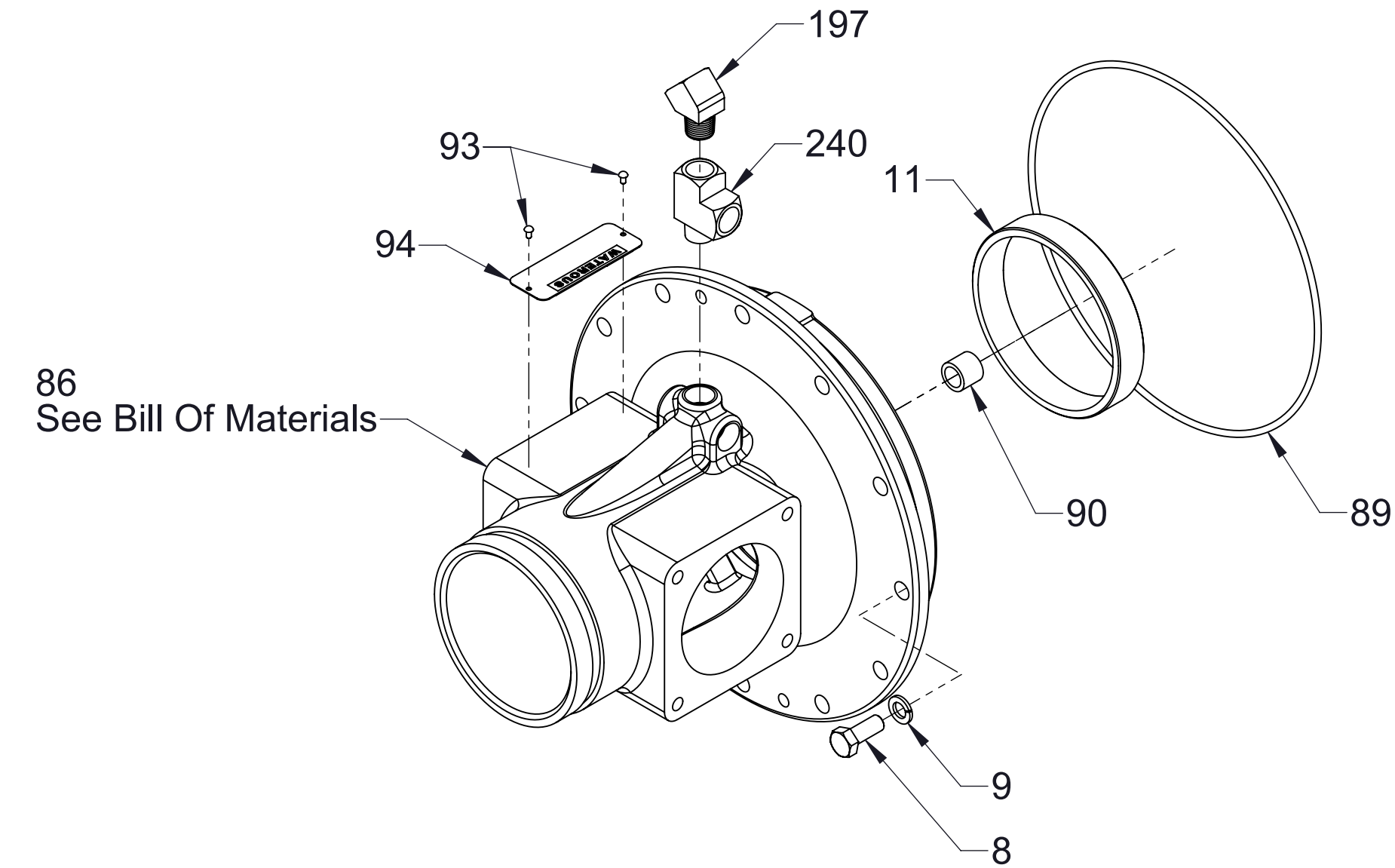
- The pump configuration and components vary for each pump model and input rotation.
- The input rotation of the drive end of the pump determines the direction the pump impeller rotates.
- Use the pump model and input rotation when referring to pages listed in the index.
- If you are unsure of the input rotation of your pump, the cast rotation arrow on the pump body can be used to determine which rotation configuration you have. The pump model can be obtained from the serial plate attached to the pump intake fitting.
- Compare your pump to the diagrams on this page.

Ref No.	Description
8	Screw-Hex Hd, M12-1.75 x 30 mm
9	Washer-Lock, 12 mm
11	Ring-Wear
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
86	Fitting-Intake Assembly (Includes 11, 90, 93, 94)
89	O-Ring, 11 x 11-3/8 in
90	Bearing-Out Board
93	Screw-Drive, #6 x 1/4 in

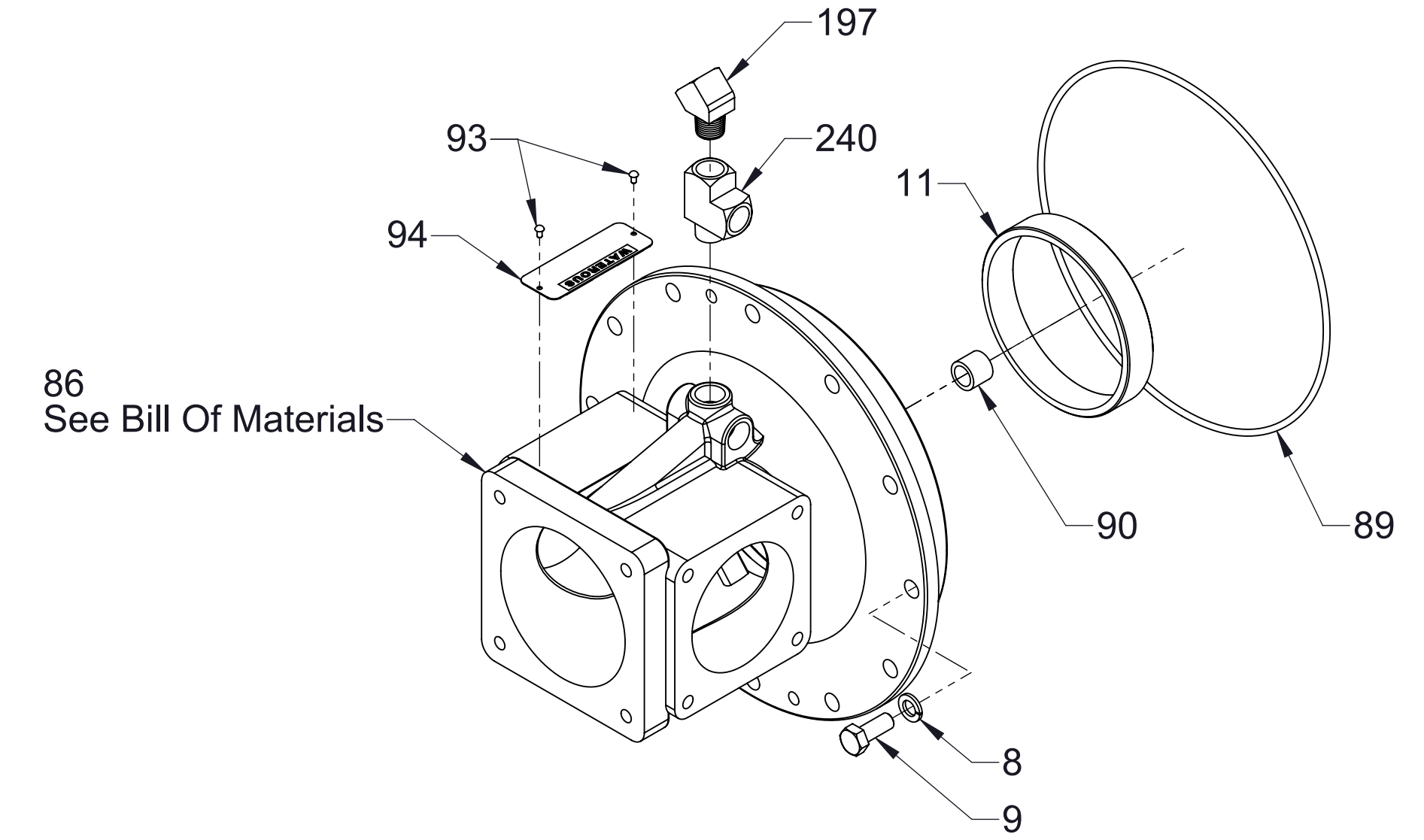
Ref No.	Description
94	Plate-Serial
109	Fitting-Storz
110	Cap-Storz
197	Elbow-Street, 45°, 1/2 NPT
203	Screen-Intake
222	O-Ring, 5-1/2 x 5-3/4 in
223	Dual Threaded Intake Fitting
240	Tee-Street, 1/2 NPTM x (2) 1/2 NPTF



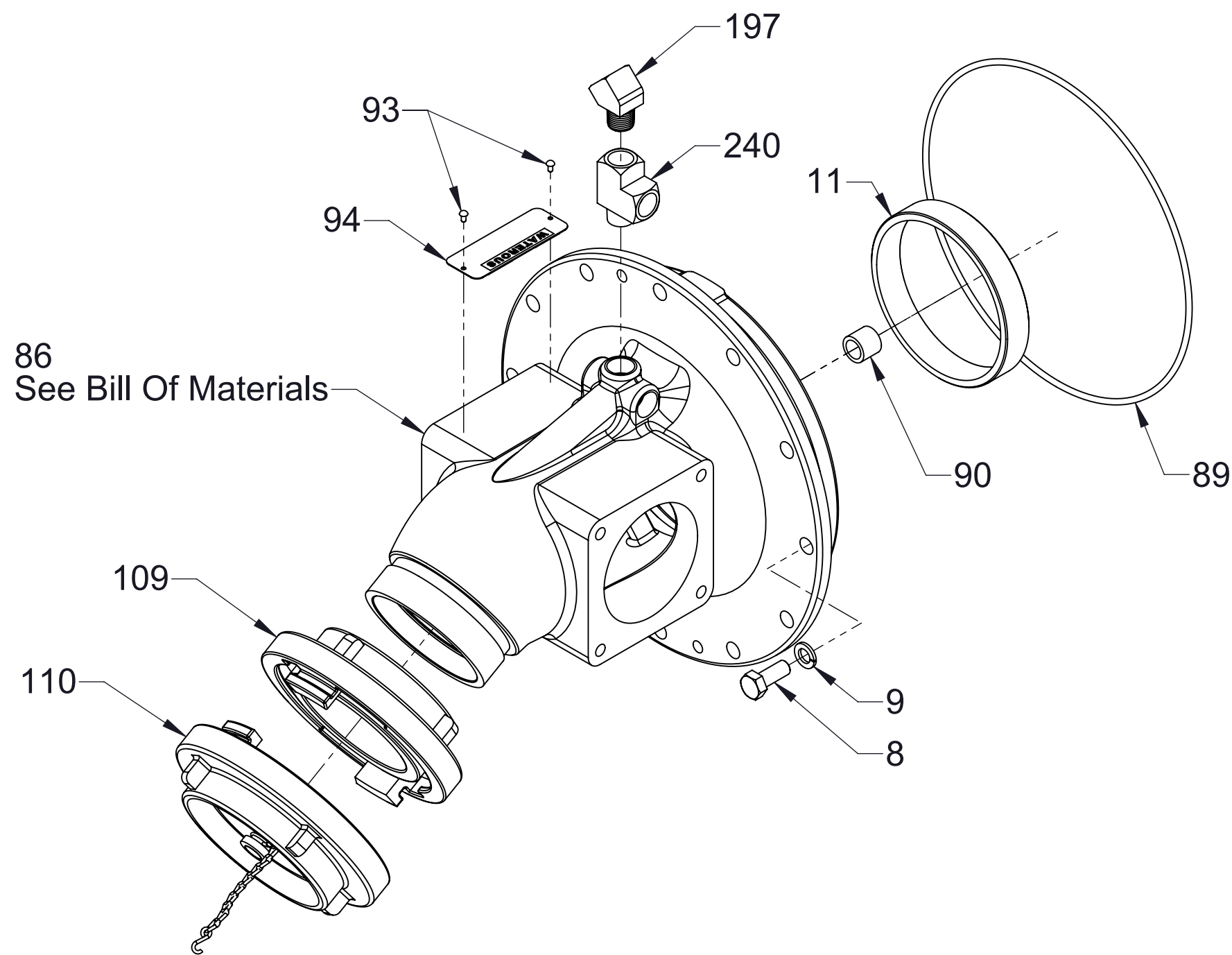
Single Threaded Inlet



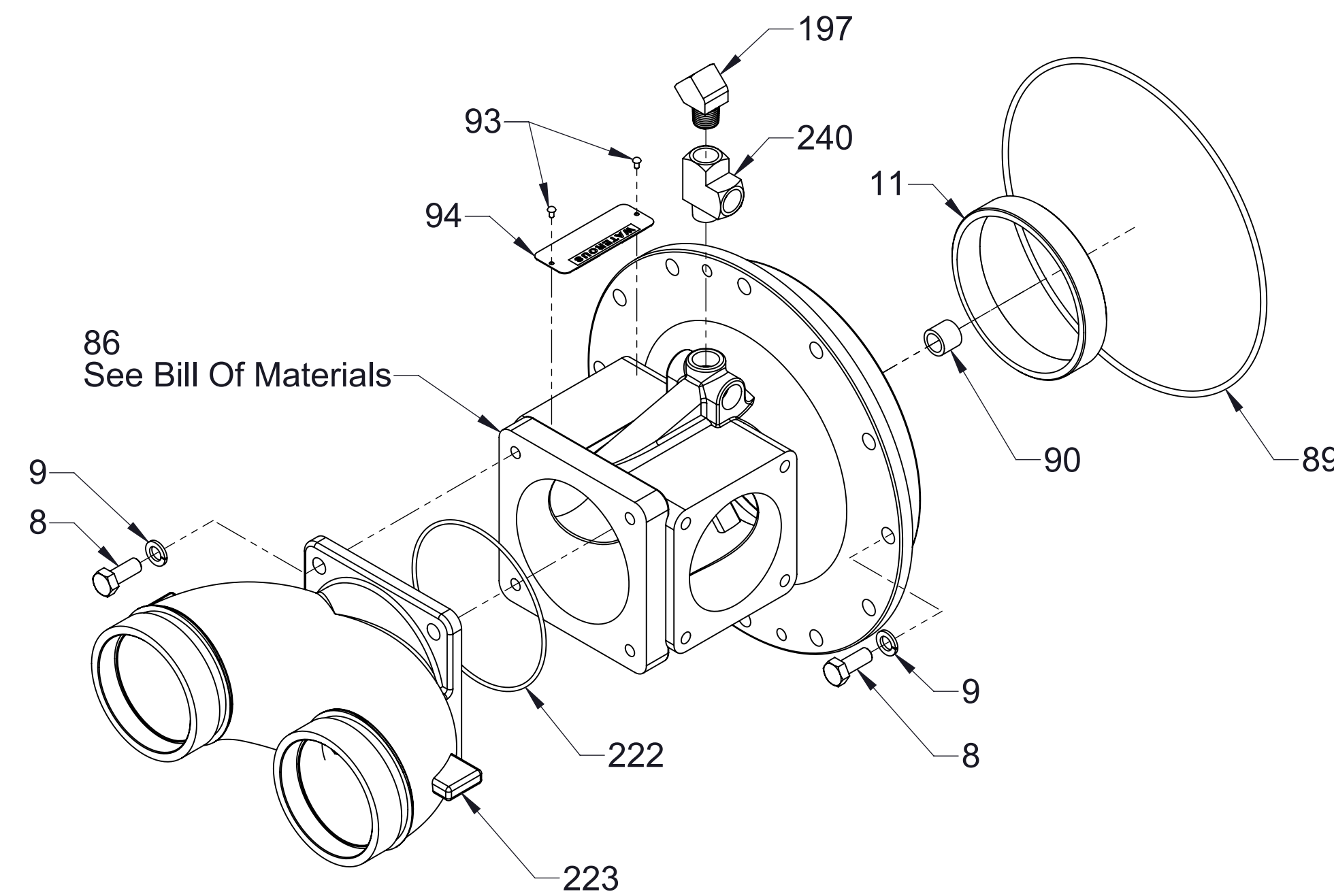
Single Grooved (Victaulic) Inlet



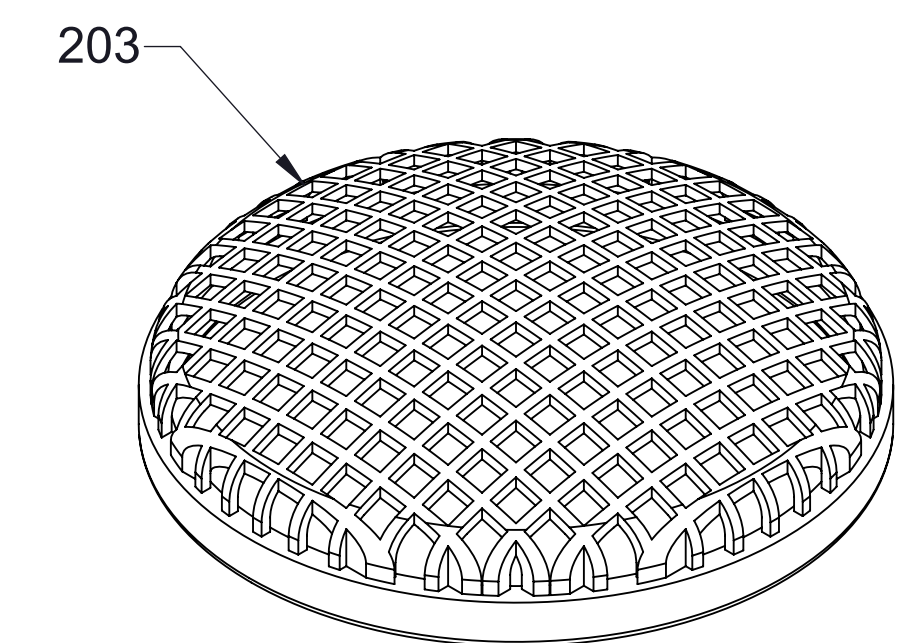
Single 4-Bolt Flanged Inlet



Single Storz Inlet with Cap



Dual Threaded Inlet

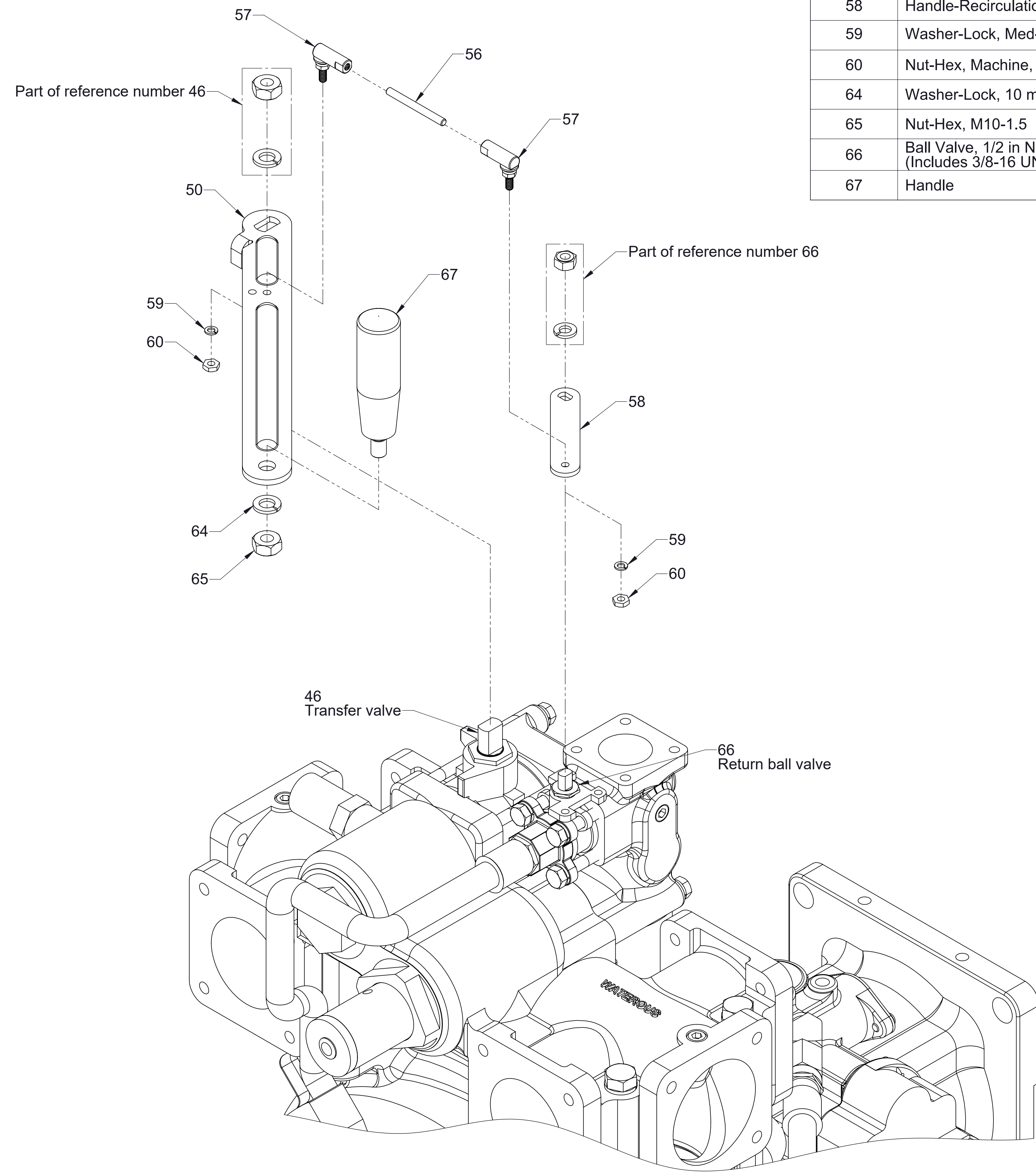


Optional Intake Screen

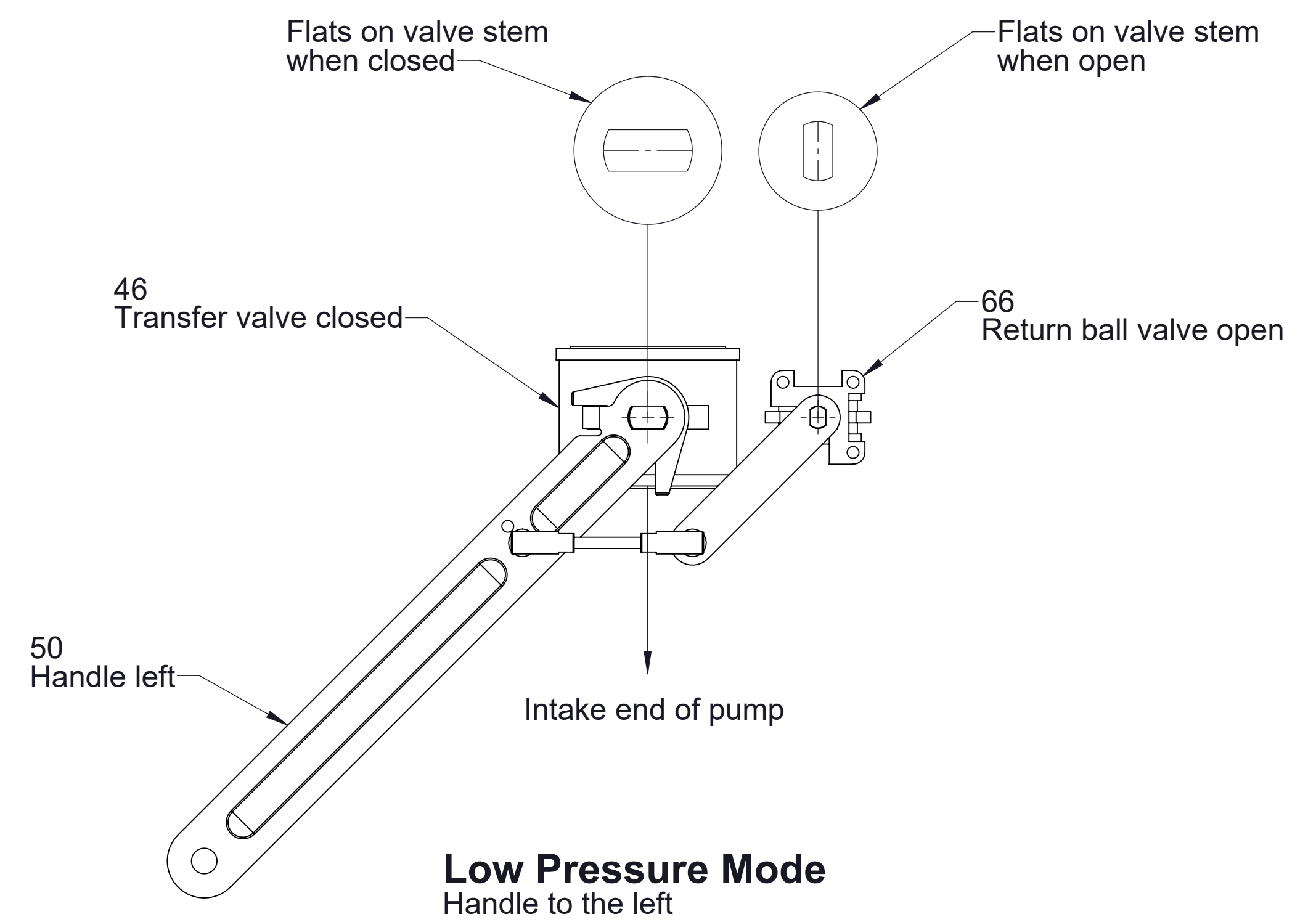
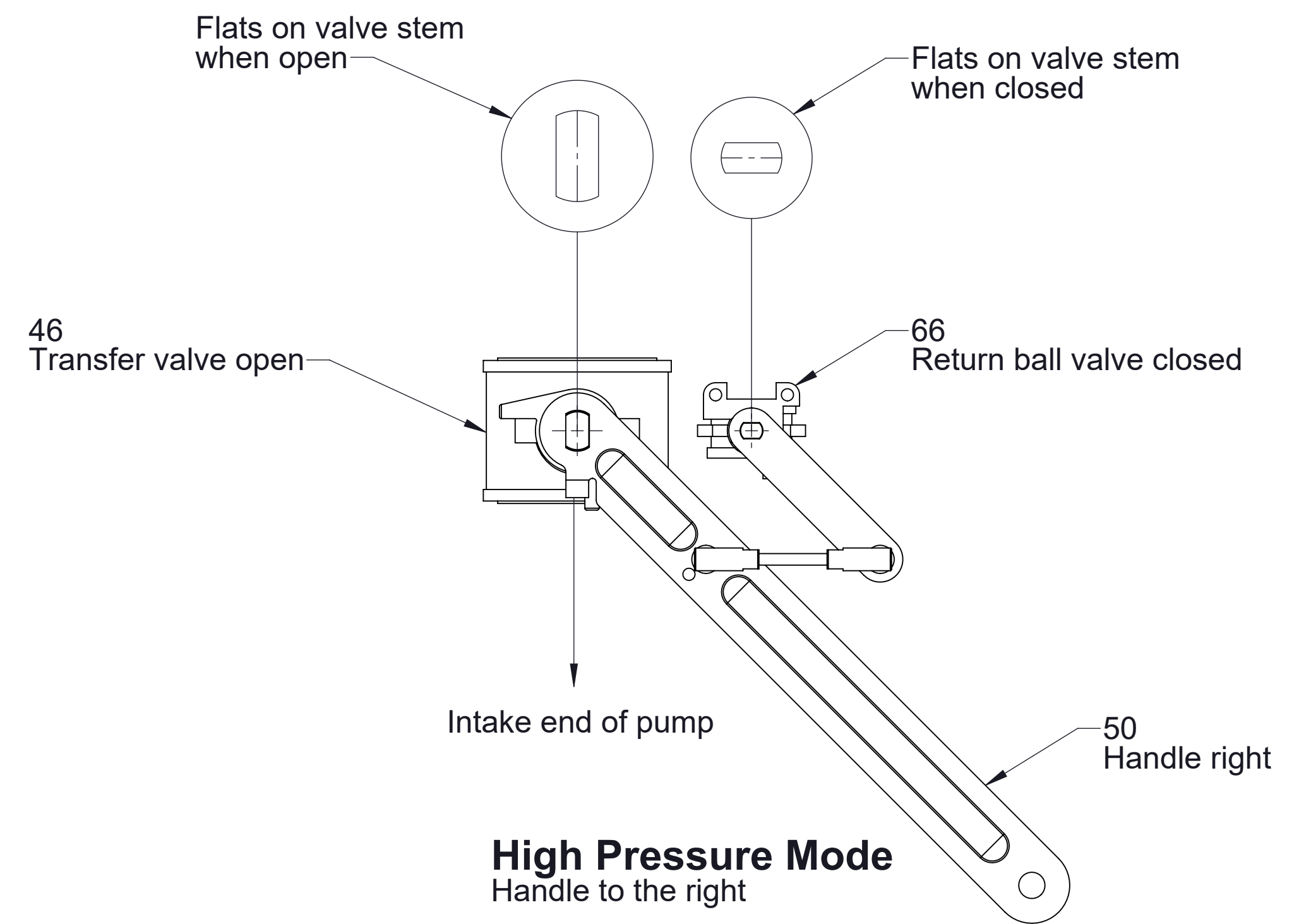
42
O-ring Repair Kit

Intake Adapter

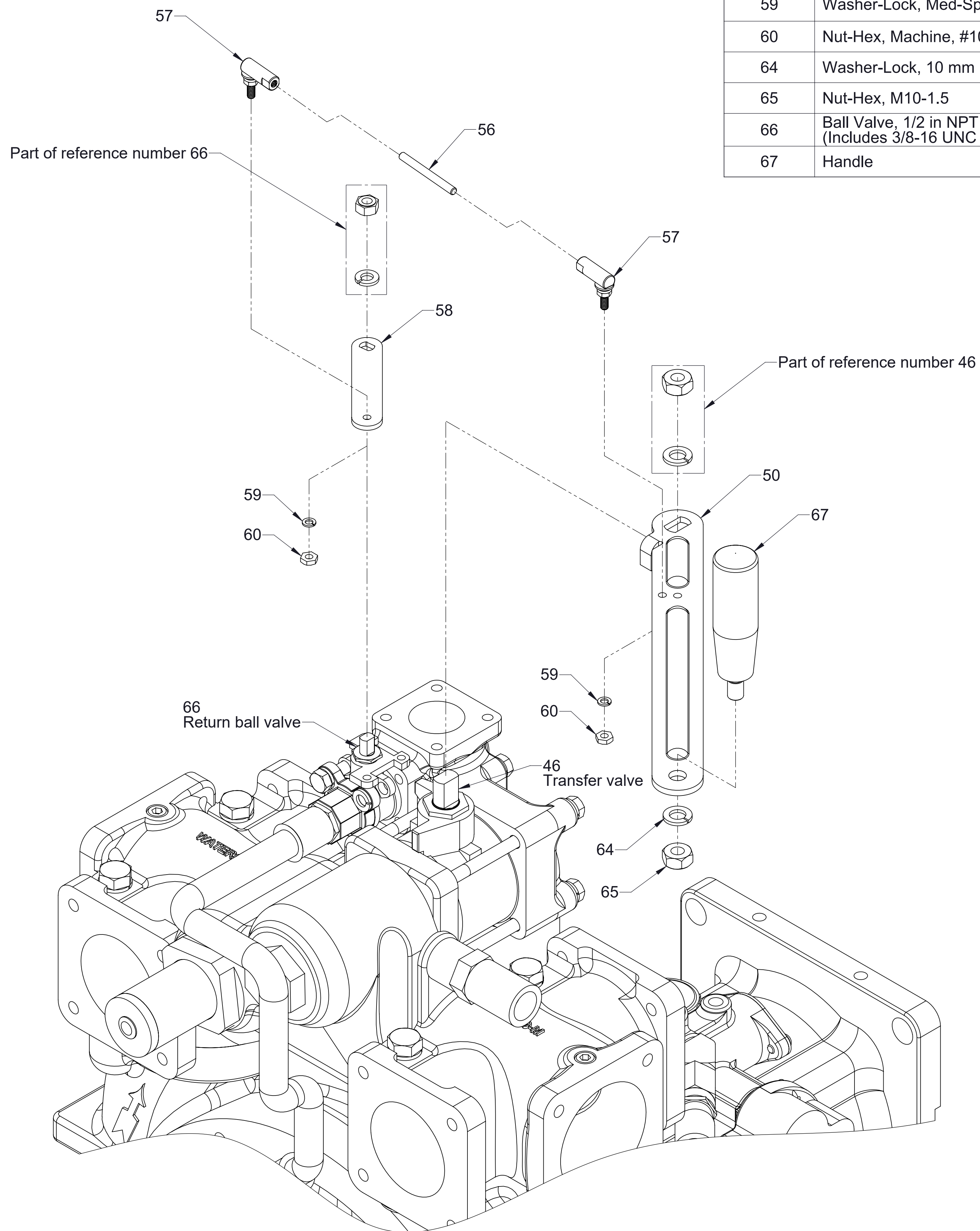
Ref No.	Description
46	Transfer Valve, 1-1/2 in (Includes 7/16-14 UNC Hex Nut and Lockwasher)
50	Handle-Crossover Valve
56	Stud-Fine, #10-32 x 2 in
57	Linkage-Ball Joint, Right Angle
58	Handle-Recirculation (CCW Rotation)
59	Washer-Lock, Med-Spring, #10
60	Nut-Hex, Machine, #10-32
64	Washer-Lock, 10 mm
65	Nut-Hex, M10-1.5
66	Ball Valve, 1/2 in NPT (Includes 3/8-16 UNC Hex Nut and Lockwasher)
67	Handle



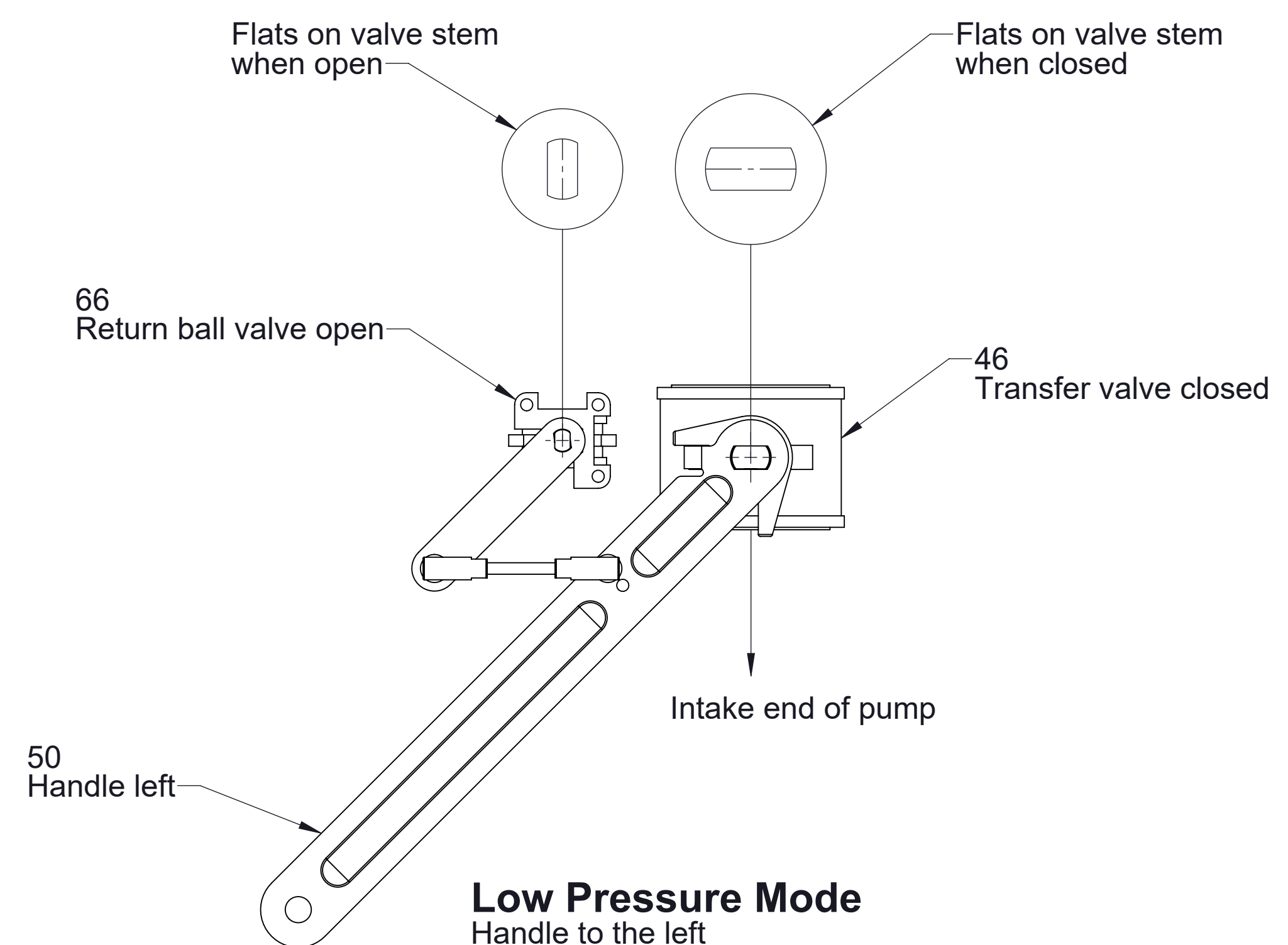
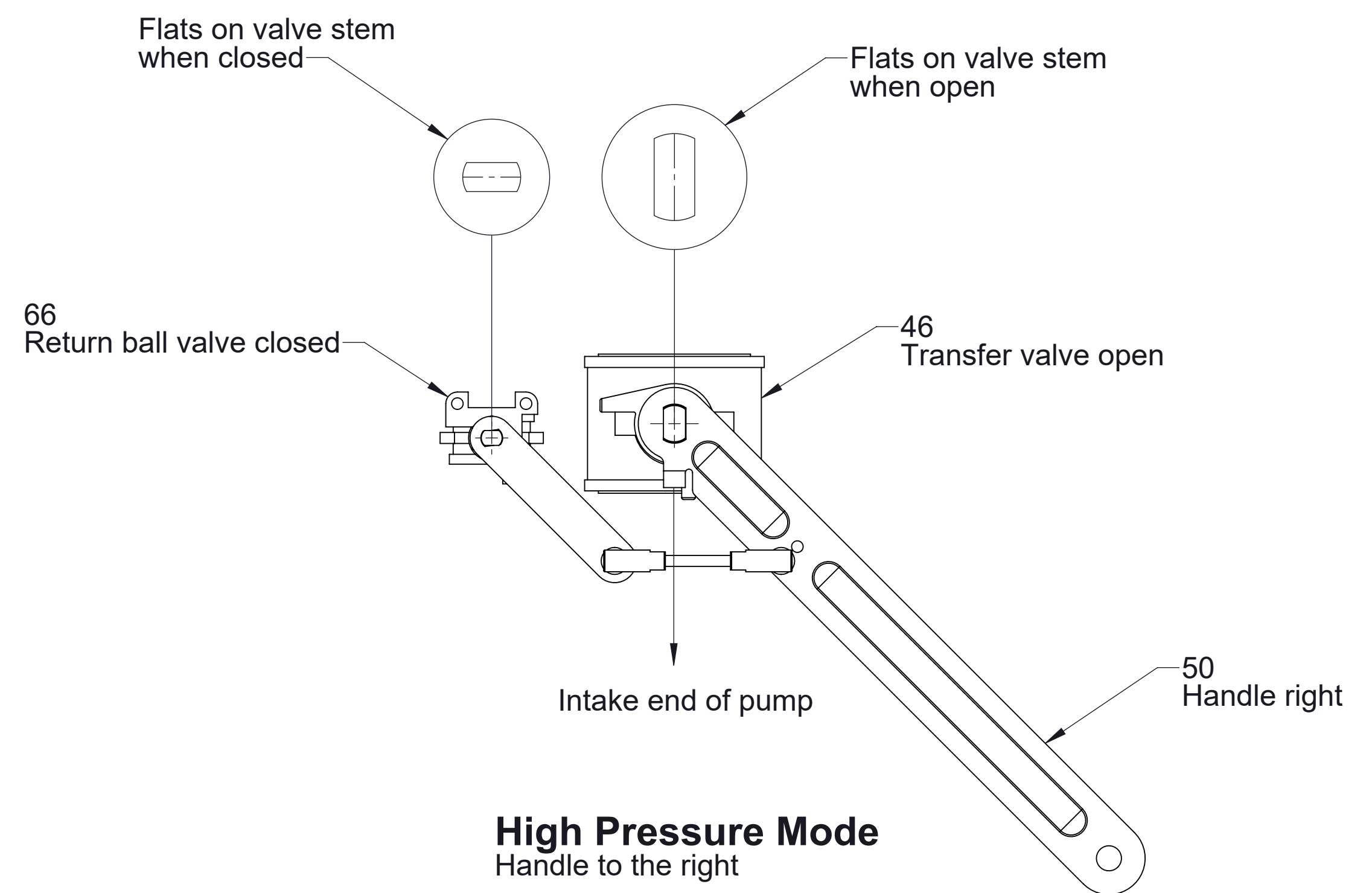
Discharge-Crossover Valve
 HL200D, HL300D - CW input rotation (CCW impeller rotation)
 HL200K, HL300K - CCW input rotation (CCW impeller rotation)



Ref No.	Description
46	Transfer Valve, 1-1/2 in (Includes 7/16-14 UNC Hex Nut and Lockwasher)
50	Handle-Crossover Valve
56	Stud-Fine, #10-32 x 2 in
57	Linkage-Ball Joint, Right Angle
58	Handle-Recirculation (CW Rotation)
59	Washer-Lock, Med-Spring, #10
60	Nut-Hex, Machine, #10-32
64	Washer-Lock, 10 mm
65	Nut-Hex, M10-1.5
66	Ball Valve, 1/2 in NPT (Includes 3/8-16 UNC Hex Nut and Lockwasher)
67	Handle



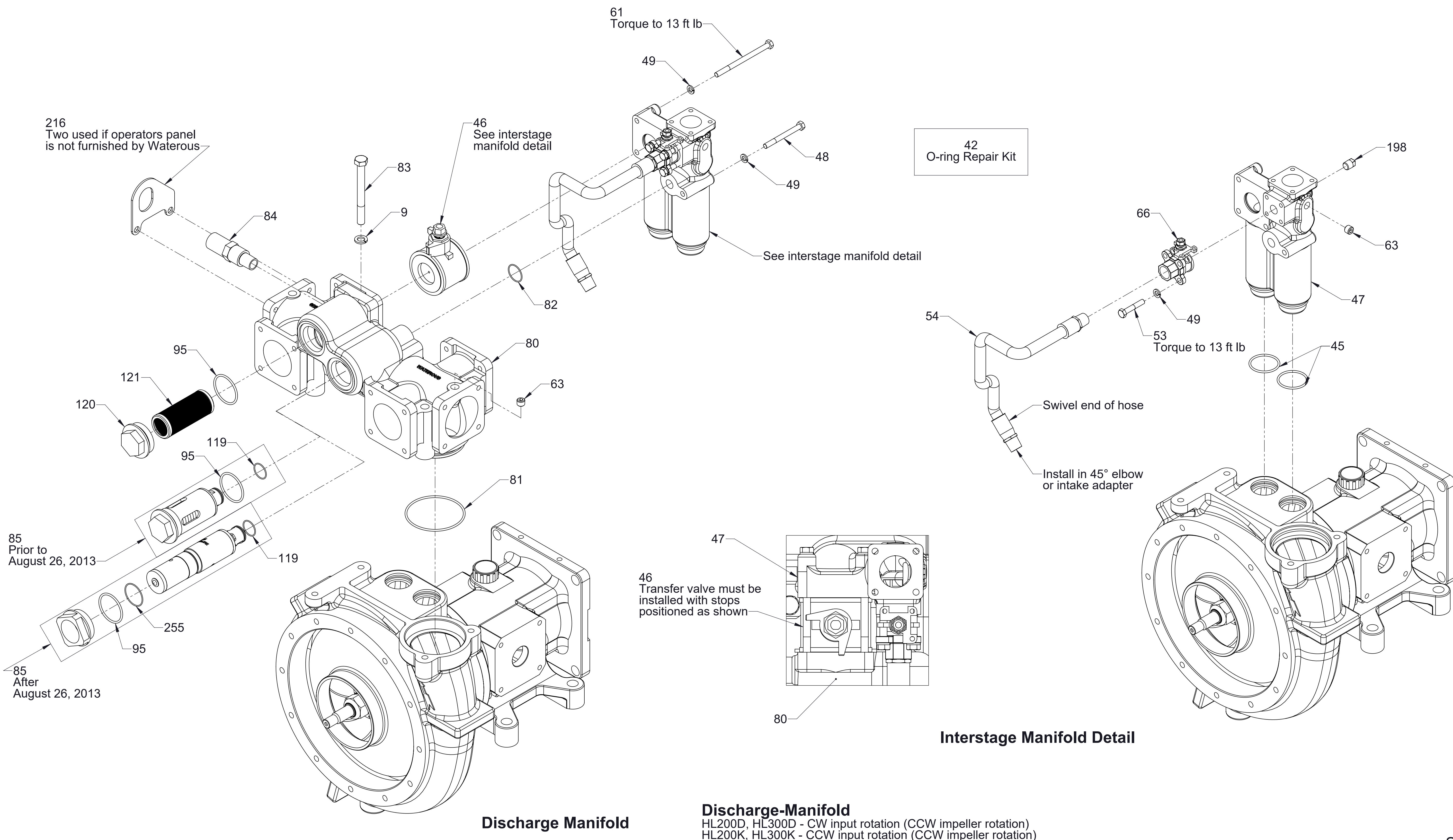
Discharge-Crossover Valve
 HL200D, HL300D - CCW input rotation (CW impeller rotation)
 HL200K, HL300K - CW input rotation (CW impeller rotation)



Ref No.	Description
9	Washer-Lock, 12 mm
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
45	O-Ring, 1-3/4 x 2 in
46	Valve-Ball, 1-1/2 in (Includes 3/8-16 Hex Nut and Lockwasher)
47	Manifold-Interstage
48	Screw-Hex Hd, M8-1.25 x 80 mm
49	Washer-Lock, 8 mm
53	Screw-Hex Hd, M8-1.25 x 45 mm
54	Hose Assembly

Ref No.	Description
61	Screw-Hex Hd, M8-1.25 x 120 mm
63	Plug-Pipe, JIS, 1/4 BSPT
66	Valve-Ball, 1/2 NPT (Includes 3/8-16 Hex Nut and Lockwasher)
80	Manifold-Discharge
81	O-Ring, 3-5/8 X 3-7/8 in
82	O-Ring, 1-1/8 x 1-1/4 in
83	Screw-Hex Hd, M12-1.75 x 120 mm
84	Valve-Thermal Relief
85	Discharge Relief Valve Assembly (Includes 95, 119)

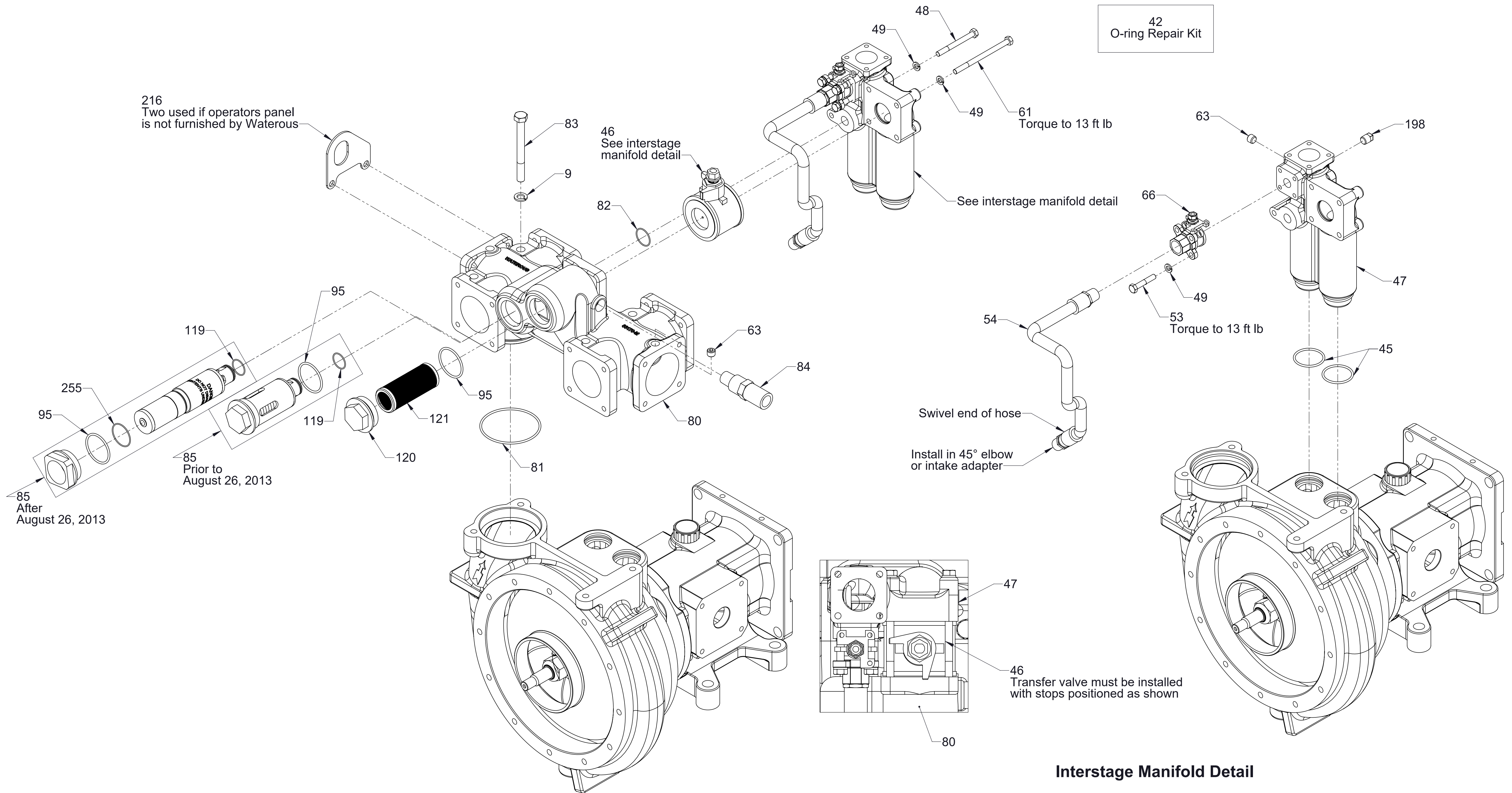
Ref No.	Description
95	O-Ring, 1-7/8 x 2-1/8 in
119	O-Ring, 1 x 1-1/8 in
120	Cap-End, Strainer
121	Strainer
198	Plug-Pipe, Square Hd, 1/4 NPT
216	Bracket-Lifting
255	O-Ring, 1-1/2 x 1-5/8 in



Ref No.	Description
9	Washer-Lock, 12 mm
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
45	O-Ring, 1-3/4 x 2 in
46	Valve-Ball, 1-1/2 in (Includes 3/8-16 Hex Nut and Lockwasher)
47	Manifold-Interstage (CW)
48	Screw-Hex Hd, M8-1.25 x 80 mm
49	Washer-Lock, 8 mm
53	Screw-Hex Hd, M8-1.25 x 45 mm
54	Hose Assembly

Ref No.	Description
61	Screw-Hex Hd, M8-1.25 x 120 mm
63	Plug-Pipe, JIS, 1/4 BSPT
66	Valve-Ball, 1/2 NPT (Includes 3/8-16 Hex Nut and Lockwasher)
80	Manifold-Discharge (CW)
81	O-Ring, 3-5/8 X 3-7/8 in
82	O-Ring, 1-1/8 x 1-1/4 in
83	Screw-Hex Hd, M12-1.75 x 120 mm
84	Valve-Thermal Relief
85	Discharge Relief Valve Assembly (Includes 95, 119)

Ref No.	Description
95	O-Ring, 1-7/8 x 2-1/8 in
119	O-Ring, 1 x 1-1/8 in
120	Cap-End, Strainer
121	Strainer
198	Plug-Pipe, Square Hd, 1/4 NPT
216	Bracket-Lifting
255	O-Ring, 1-1/2 x 1-5/8 in



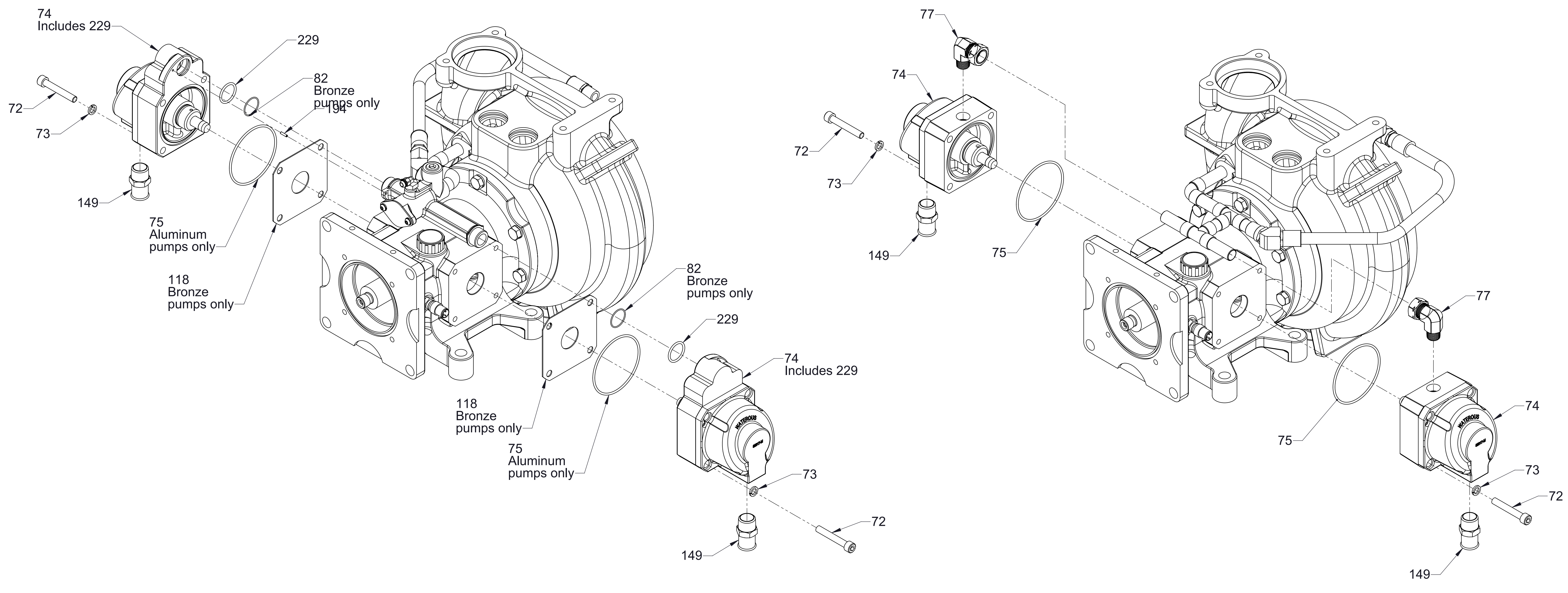
Discharge Manifold

Discharge-Manifold

HL200D, HL300D - CCW input rotation (CW impeller rotation)
HL200K, HL300K - CW input rotation (CW impeller rotation)

Ref No.	Description
72	Screw-Soc Hd, M10-1.5 x 65 mm
73	Washer-Lock, High Collar, 10 mm
74	Piston Primer Assembly (Includes 229)
75	O-Ring, 3-3/4 X 4 in (Used on aluminum pumps only)
77	Elbow-Male, 1/2 NPT x 3/4 Tube
82	O-Ring, 1-1/8 x 1-1/4 in (Used on bronze pumps only)
118	Gasket-Priming Module (Used on bronze pumps only)
147	Piston Primer Repair Kit
149	Fitting-Hose Barb, 3/4 NPT X 1 Hose
194	Pin-Spring, 1/8 x 5/8 in
229	O-Ring, 1-1/8 x 1-3/8 in

147
Primer Repair Kit
(Repair kit for reference
number 74 primers)



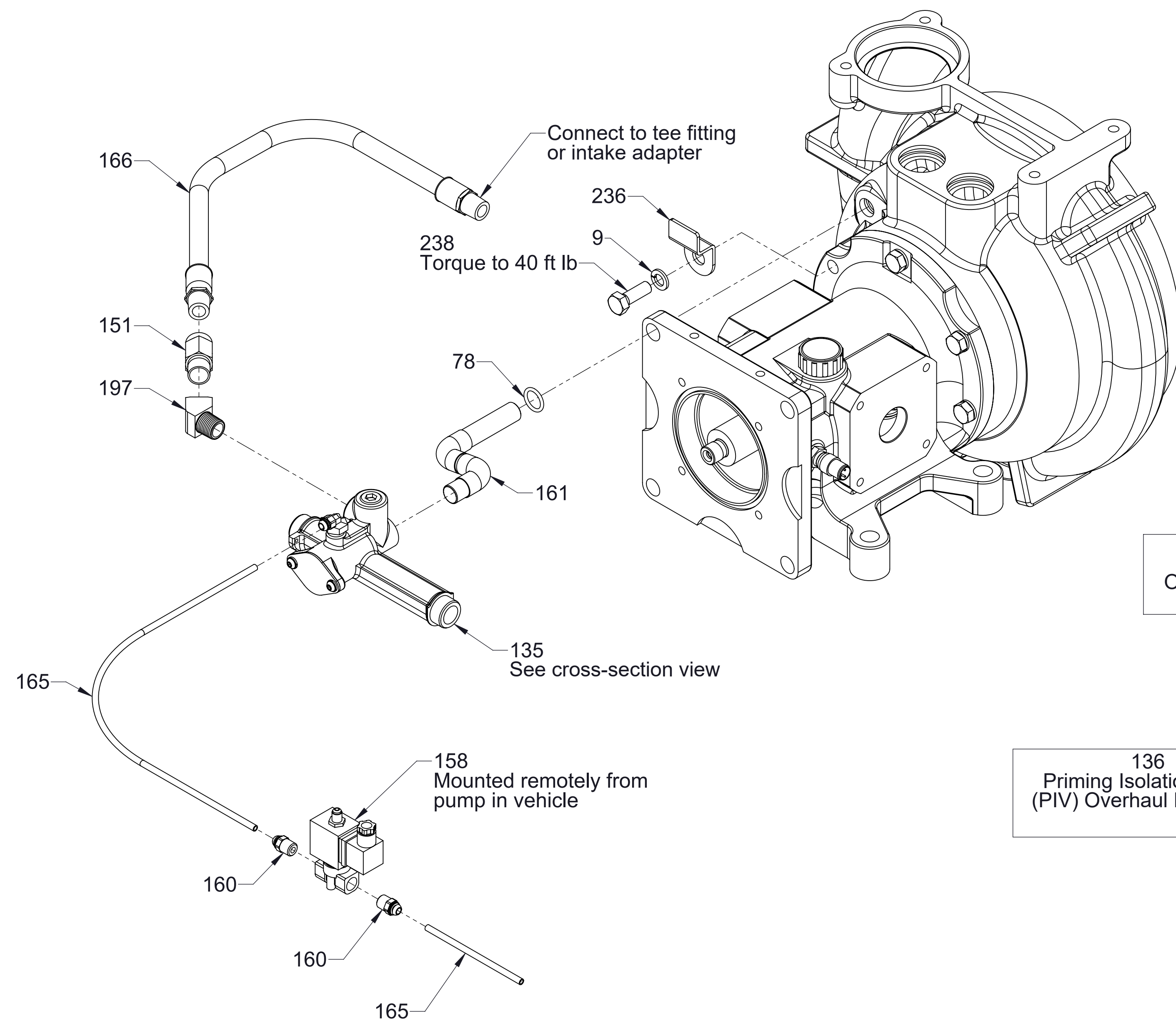
With PIV (Priming Isolation Valve)

Priming System-Primers

Without PIV (Priming Isolation Valve)

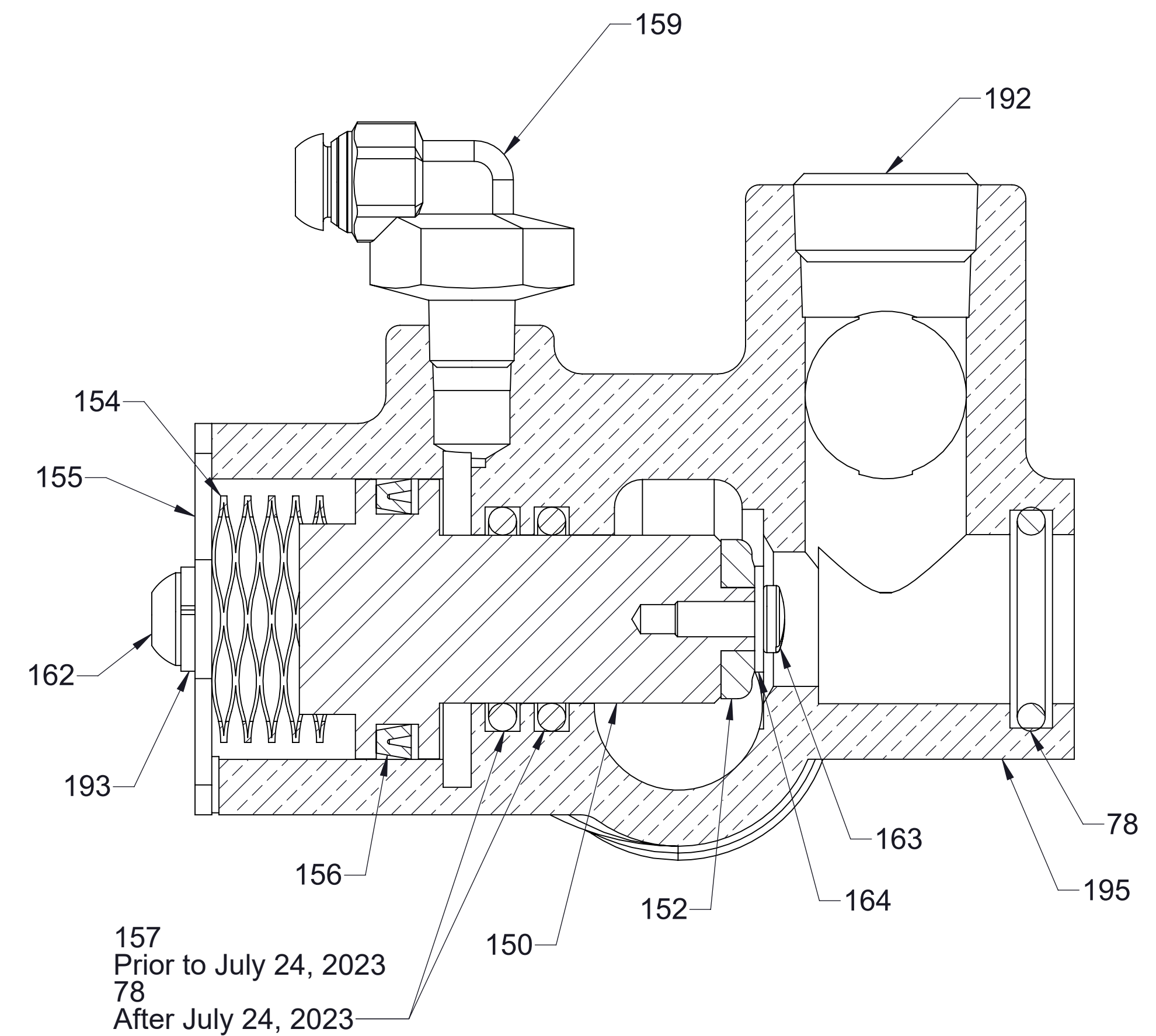
Ref No.	Description
9	Washer-Lock, 12 mm
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
78	O-Ring, 3/4 x 1 in
135	Priming Isolation Valve (PIV) Assembly (Includes 78, 150, 152, 154, 155, 156, 157, 159, 162, 163, 164, 192, 195)
136	Priming Isoation Valve (PIV) Overhaul Repair Kit (Includes 75, 78, 82, 118, 152, 154, 156, 163, 164, 229)
150	Piston-Priming Valve
151	Valve-Check
152	Seal-Priming Valve
154	Spring-Wave
155	Cover-Priming Valve
156	Seal-Piston
157	Seal-Rod
158	Valve-Solenoid, 3-Way, 1/4 NPT, 12V
159	Connector-Elbow, 90°, 6 mm Tube X 1/8 BSPT
160	Connector-Male, 6 mm Tube x 1/4 BSPT

Ref No.	Description
161	Tube-Priming
162	Screw-Soc Button Hd, M6-1 x 12 mm
163	Screw-Pan Hd, M4-.7 x 10 mm
164	Washer, 4 mm
165	Tube-Nylon, Metric
166	Hose Assembly
192	Plug-Pipe, JIS, 1/2 BSPT
193	Washer-Lock, 6 mm
195	Valve-Priming, Body
197	Elbow-Street, 45°, 1/2 NPT
236	Clip-PIV Priming Tube
238	Screw-Hex Hd, M12-1.75 x 35 mm



42
O-ring Repair Kit

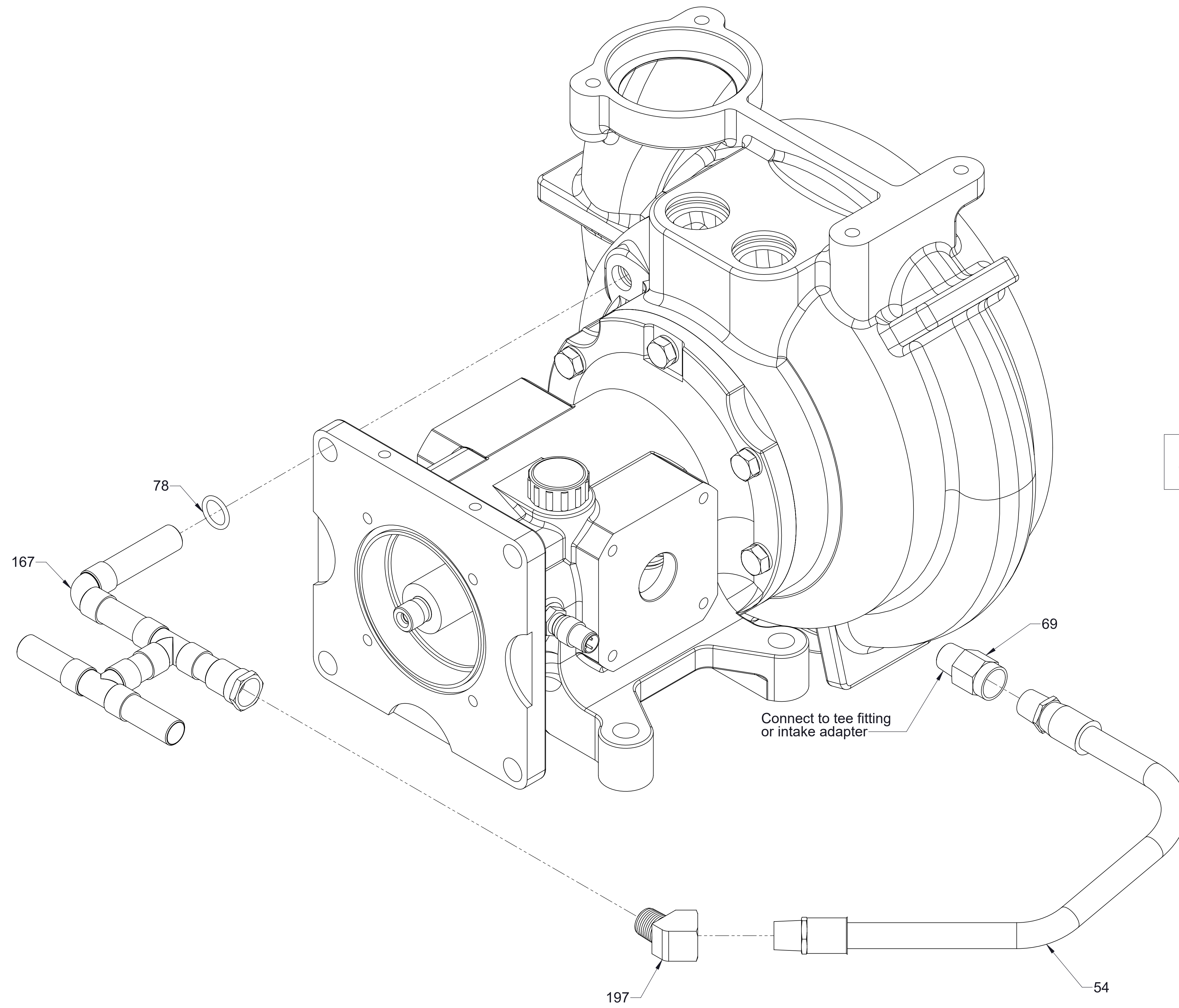
136
Priming Isolation Valve (PIV) Overhaul Repair Kit



Reference Number 135
Cross-Section View

Priming System-PIV (Priming Isolation Valve)-With

Ref No.	Description
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
54	Hose Assembly
69	Valve-Check, Primer
78	O-Ring, 3/4 x 1 in
167	Tube-Priming (Non-PIV)
197	Elbow-Street, 45°, 1/2 NPT



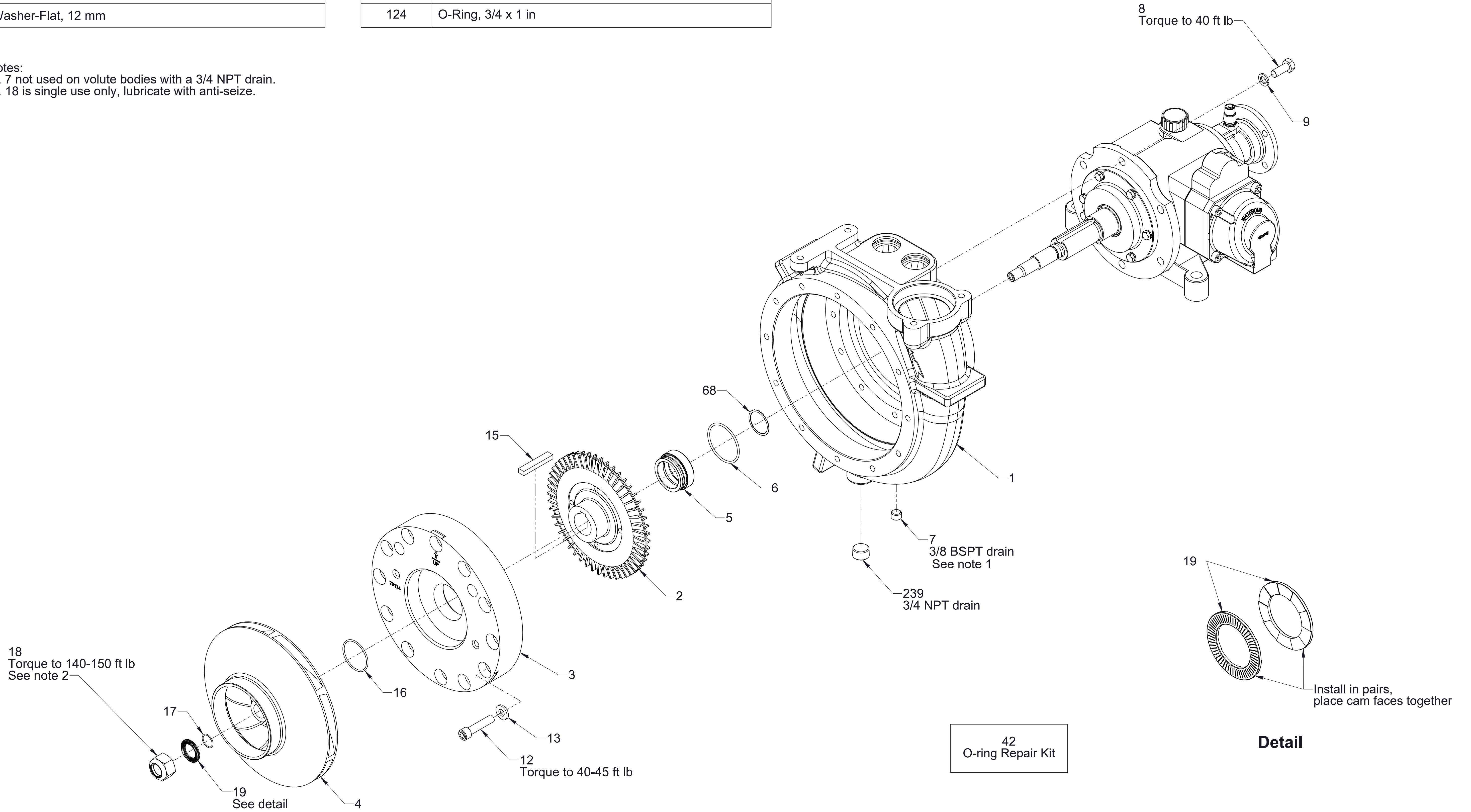
**Priming System-PIV (Priming Isolation Valve)-Without
Prior to April 15, 2022**

Ref No.	Description
1	Body-Volute
2	Impeller-High Pressure
3	Plate-Separator (CW or CCW)
4	Impeller
5	Mechanical Seal Repair Kit (Includes 6, 16, 17, 18, 19, 68, 89)
6	O-Ring, 2-1/2 x 2-3/4 in
7	Plug-Pipe, JIS, 3/8 BSPT
8	Screw-Hex Hd, M12-1.75 x 30 mm
9	Washer-Lock, 12 mm
12	Screw-Soc Hd, M12-1.75 x 55 mm
13	Washer-Flat, 12 mm

Ref No.	Description
15	Key, 8 x 12 x 65 mm
16	O-Ring, 2 x 2-3/16 in
17	O-Ring, 13/16 x 15/16 in
18	Nut-Lock
19	Washer Nord-Lock, 24 mm
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
68	High Pressure Impeller Shim Pack (Includes .002, .005, .010 thick shims) See overhaul instructions F-1031, section 4321 for shimming instructions
239	Plug-Pipe, Headless, 3/4 NPT
124	O-Ring, 3/4 x 1 in

Service Notes:

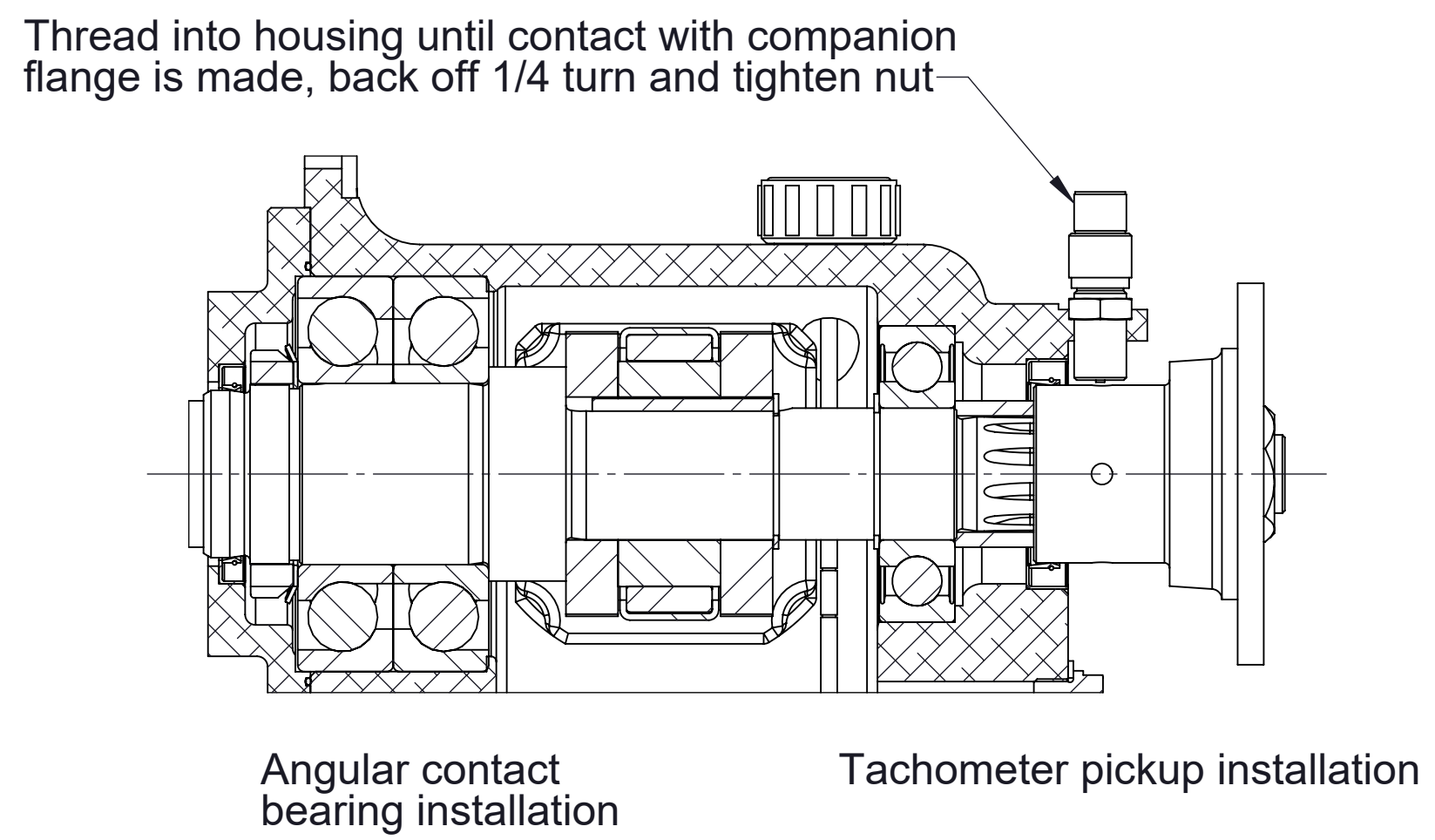
1. Ref no. 7 not used on volute bodies with a 3/4 NPT drain.
2. Ref no. 18 is single use only, lubricate with anti-seize.



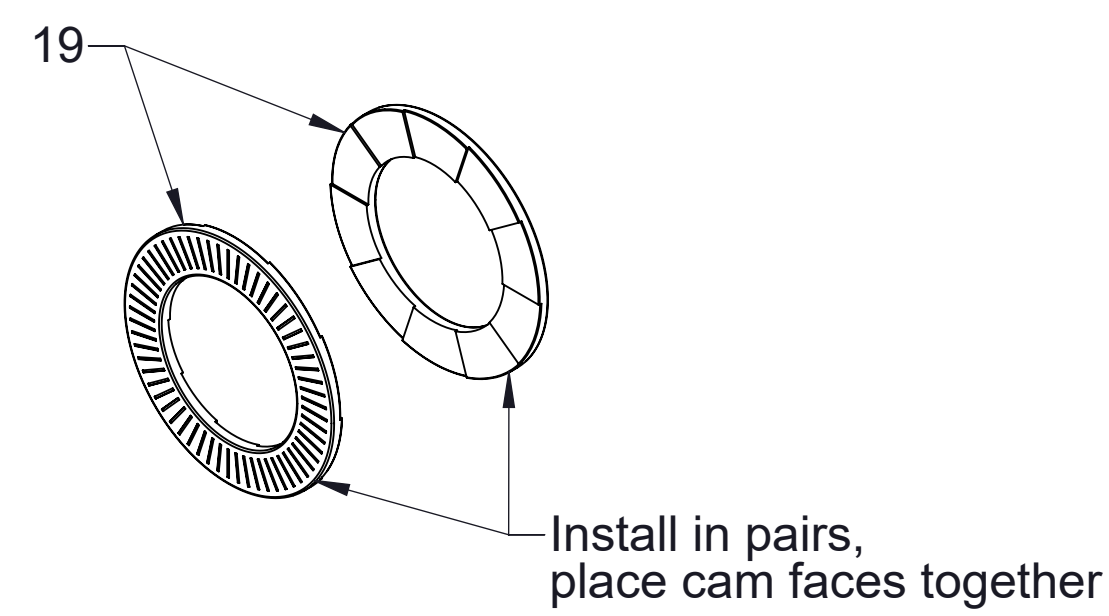
Pump-Body and Impeller

Ref No.	Description
20	Housing-Oil Seal
21	Seal-Oil, 2 x 2-5/8 in
22	Nut-Lock, Bearing, N11
23	Washer-Lock, Bearing, W11
24	Bearing-Ball, Single Row
25	Shaft-Impeller
26	Counterweight-Primer
27	Key, 8 x 12 x 55 mm
28	Eccentric-Primer
30	Bearing, Ball, Single Row, 40 x 90 x 23 mm
31	Bearing - Roller, Needle
32	Pedestal
33	Plug-Straight Thread, Hex Hd, M16-1.5
34	Washer-Flat, 5/8 in

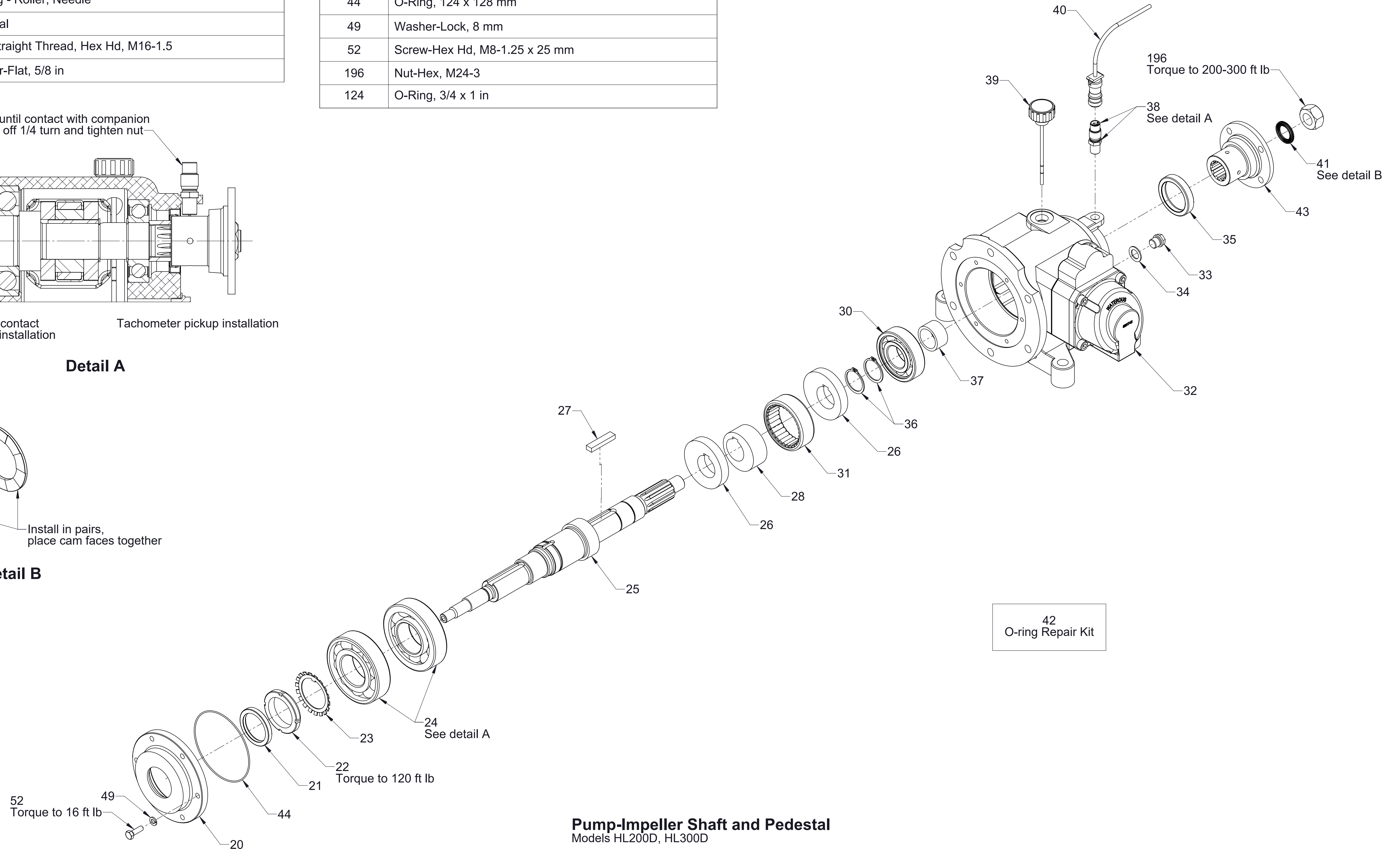
Ref No.	Description
35	Seal-Oil, 2-1/8 x 2-3/4 in
36	Ring-Retaining, External, 1-9/16 in Shaft Dia
37	Spacer-Shaft, Impeller
38	Pickup-Magnetic, Tachometer
39	Dipstick-Oil
40	Connector-Cable Assembly
41	Washer Nord-Lock, 24 mm
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
43	Flange-Companion, 1410 Series
44	O-Ring, 124 x 128 mm
49	Washer-Lock, 8 mm
52	Screw-Hex Hd, M8-1.25 x 25 mm
196	Nut-Hex, M24-3
124	O-Ring, 3/4 x 1 in



Detail A

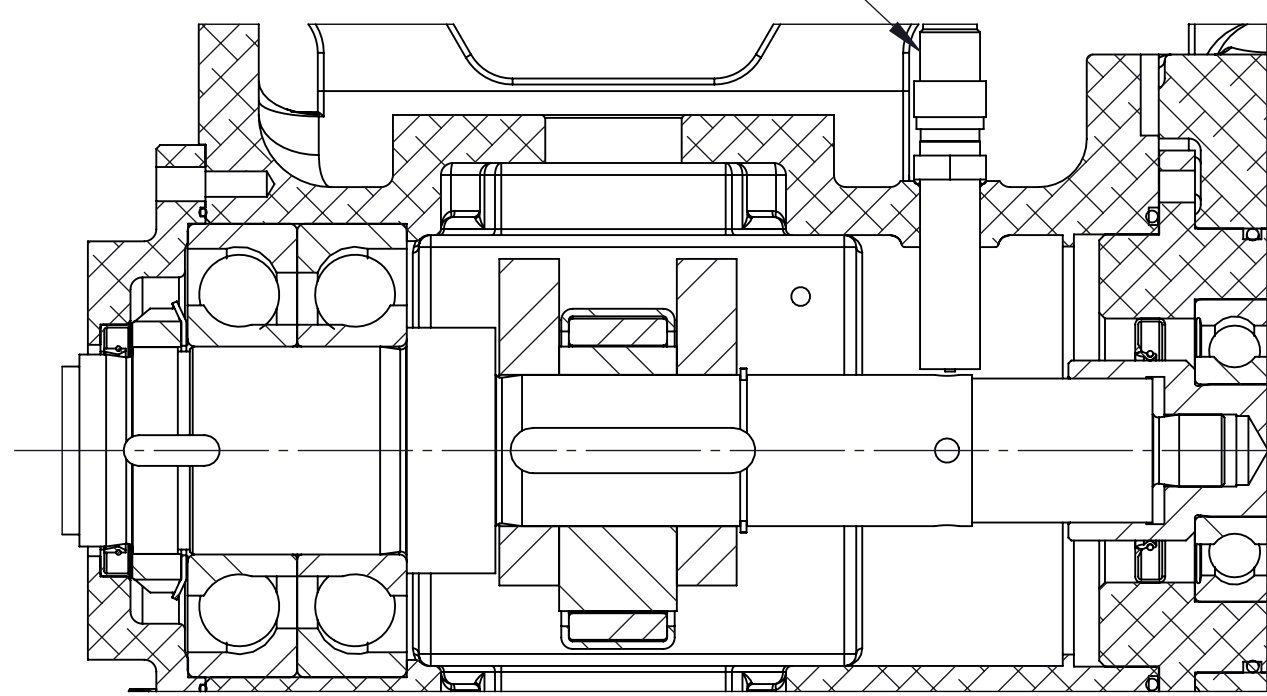


Detail B



Pump-Impeller Shaft and Pedestal
Models HL200D, HL300D

Thread into housing until contact with impeller shaft is made, back off 1/4 turn and tighten nut



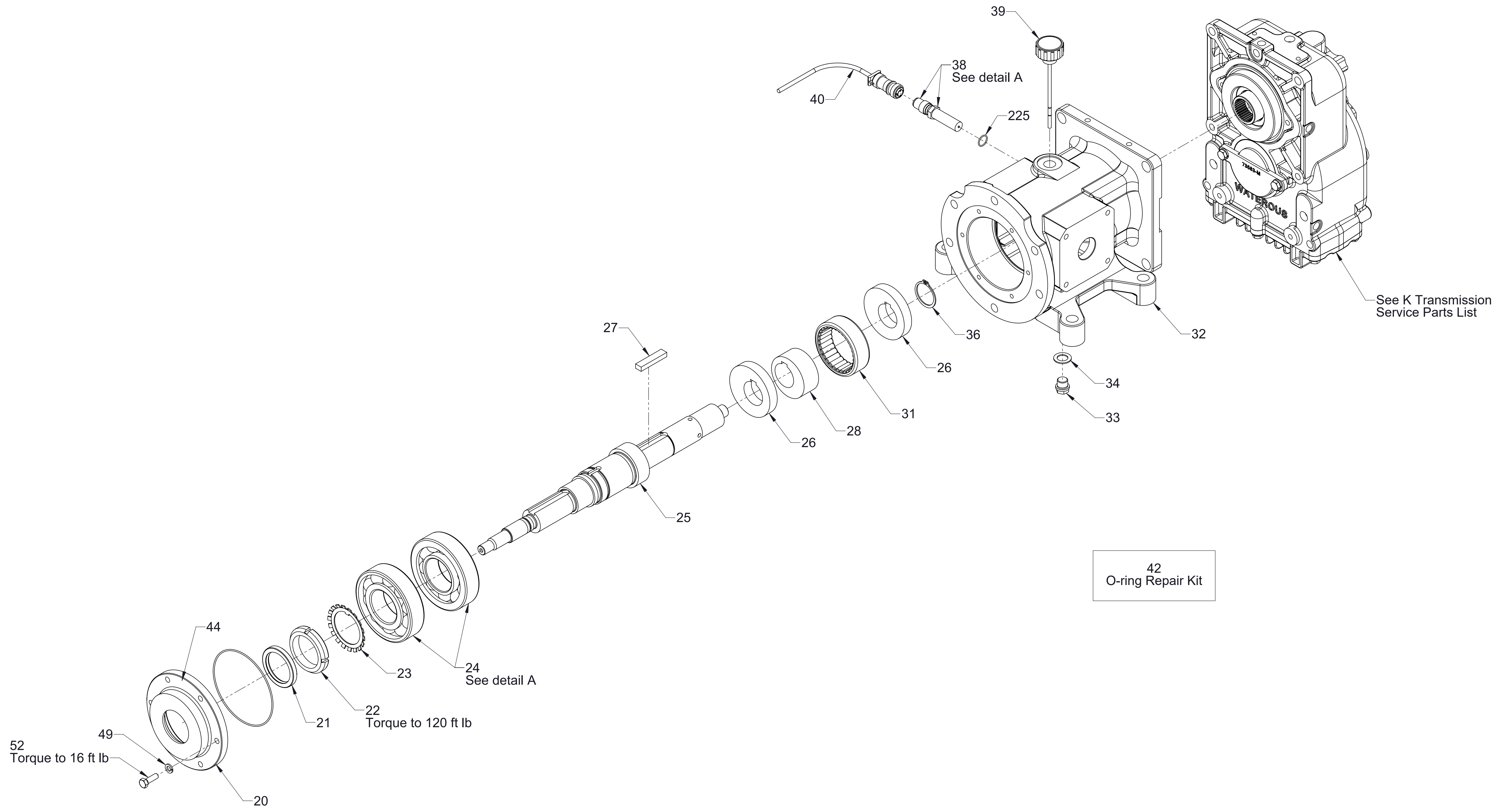
Angular contact bearing installation

Tachometer pickup installation

Detail A

Ref No.	Description
20	Housing-Oil Seal
21	Seal-Oil, 2 x 2-5/8 in
22	Nut-Lock, Bearing, N11
23	Washer-Lock, Bearing, W11
24	Bearing-Ball, Single Row
25	Shaft-Impeller
26	Counterweight-Primer
27	Key, 8 x 12 x 55 mm
28	Eccentric-Primer
31	Bearing - Roller, Needle
32	Pedestal
33	Plug-Straight Thread, Hex Hd, M16-1.5

Ref No.	Description
34	Washer-Flat, 5/8 in
36	Ring-Retaining, External, 1-9/16 in Shaft Dia
38	Pick-Up-Magnetic, Tachometer
39	Dipstick-Oil
40	Connector-Cable Assembly
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
44	O-Ring, 124 x 128 mm
49	Washer-Lock, 8 mm
52	Screw-Hex Hd, M8-1.25 x 25 mm
225	O-Ring, 5/8 x 3/4 in



See K Transmission Service Parts List

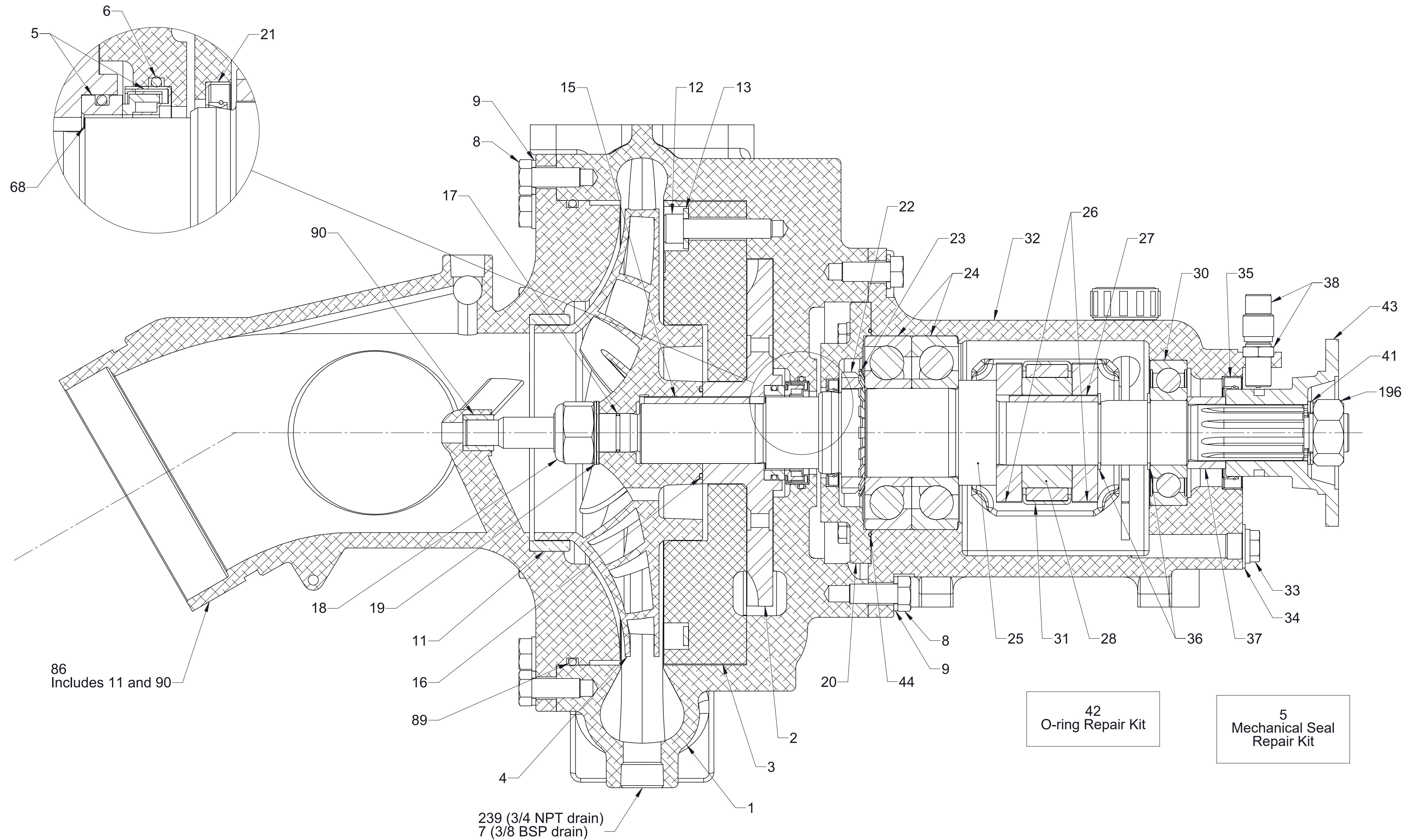
42
O-ring Repair Kit

Pump-Impeller Shaft and Pedestal
Models HL200K, HL300K

Ref No.	Description
1	Body-Volute
2	Impeller-High Pressure
3	Plate-Separator (CW or CCW)
4	Impeller
5	Mechanical Seal Repair Kit (Includes 6, 16, 17, 18, 19, 68, 89)
6	O-Ring, 2-1/2 x 2-3/4 in
7	Plug-Pipe, JIS, 3/8 BSPT
8	Screw-Hex Hd, M12-1.75 x 30 mm
9	Washer-Lock, 12 mm
11	Ring-Wear
12	Screw-Soc Hd, M12-1.75 x 55 mm
13	Washer-Flat, 12 mm
15	Key, 8 x 12 x 65 mm
16	O-Ring, 2 x 2-3/16 in
17	O-Ring, 13/16 x 15/16 in
18	Nut-Lock

Ref No.	Description
19	Washer Nord-Lock, 24 mm
20	Housing-Oil Seal
21	Seal-Oil, 2 x 2-5/8 in
22	Nut-Lock, Bearing, N11
23	Washer-Lock, Bearing, W11
24	Bearing-Ball, Single Row
25	Shaft-Impeller
26	Counterweight-Primer
27	Key, 8 x 12 x 55 mm
28	Eccentric-Primer
30	Bearing, Ball, Single Row, 40 x 90 x 23 mm
31	Bearing - Roller, Needle
32	Pedestal
33	Plug-Straight Thread, Hex Hd, M16-1.5
34	Washer-Flat, 5/8 in
35	Seal-Oil, 2-1/8 x 2-3/4 in

Ref No.	Description
36	Ring-Retaining, External, 1-9/16 in Shaft Dia
37	Spacer-Shaft, Impeller
38	Pickup-Magnetic, Tachometer
41	Washer Nord-Lock, 24 mm
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
43	Flange-Companion, 1410 Series
44	O-Ring, 124 x 128 mm
68	High Pressure Impeller Shim Pack (Includes .002, .005, .010 thick shims) See overhaul instructions F-1031, section 4321 for shimming instructions
86	Fitting-Intake Assembly (Includes 11, 90, 92, 93)
89	O-Ring, 11 x 11-3/8 in
90	Bearing-Out Board
196	Nut-Hex, M24-3
239	Plug-Pipe, Headless, 3/4 NPT
132	O-Ring, 3/4 x 1 in

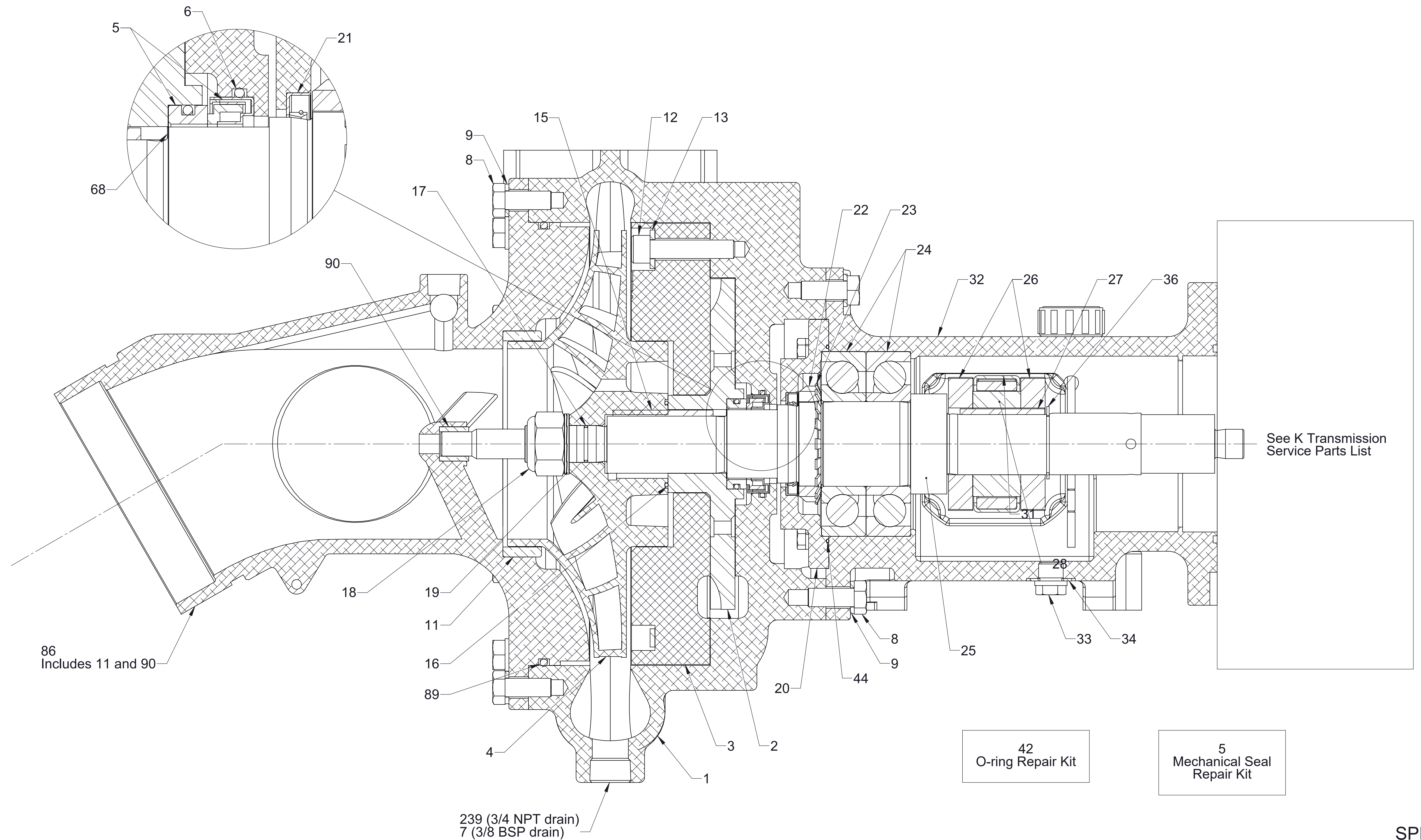


Pump-Cross-Section View
Models HL200D, HL300D

Ref No.	Description
1	Body-Volute
2	Impeller-High Pressure
3	Plate-Separator (CW or CCW)
4	Impeller
5	Mechanical Seal Repair Kit (Includes 6, 16, 17, 18, 19, 68, 89)
6	O-Ring, 2-1/2 x 2-3/4 in
7	Plug-Pipe, JIS, 3/8 BSPT
8	Screw-Hex Hd, M12-1.75 x 30 mm
9	Washer-Lock, 12 mm
11	Ring-Wear
12	Screw-Soc Hd, M12-1.75 x 55 mm
13	Washer-Flat, 12 mm
15	Key, 8 x 12 x 65 mm

Ref No.	Description
16	O-Ring, 2 x 2-3/16 in
17	O-Ring, 13/16 x 15/16 in
18	Nut-Lock
19	Washer Nord-Lock, 24 mm
20	Housing-Oil Seal
21	Seal-Oil, 2 x 2-5/8 in
22	Nut-Lock, Bearing, N11
23	Washer-Lock, Bearing, W11
24	Bearing-Ball, Single Row
25	Shaft-Impeller
26	Counterweight-Primer
27	Key, 8 x 12 x 55 mm
28	Eccentric-Primer

Ref No.	Description
31	Bearing - Roller, Needle
32	Pedestal
33	Plug-Straight Thread, Hex Hd, M16-1.5
34	Washer-Flat, 5/8 in
36	Ring-Retaining, External, 1-9/16 in Shaft Dia
42	O-Ring Repair Kit (Includes 44, 45, 81, 82, 89, 95, 119, 255 plus o-rings for intake and discharge fittings, see reference number 42 on SPL83156)
44	O-Ring, 124 x 128 mm
68	High Pressure Impeller Shim Pack (Includes .002, .005, .010 thick shims) See overhaul instructions F-1031, section 4321 for shimming instructions
86	Fitting-Intake Assembly (Includes 11, 90, 92, 93)
89	O-Ring, 11 x 11-3/8 in
90	Bearing-Out Board
239	Plug-Pipe, Headless, 3/4 NPT



Pump-Cross-Section View
Models HL200K, HL300K