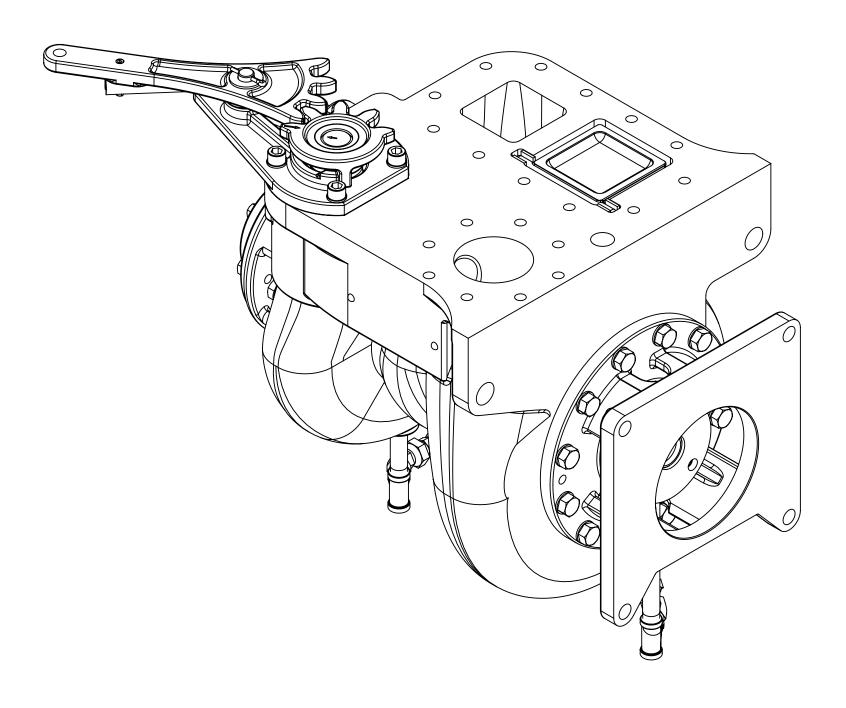


Pump Body
Transfer Valve
Mechanical Seal Coolir
Int

WaterousCompany, 125 Hardman Avenue South, South St. Paul, Minnesota 55075 USA (651) 450-5000 www.waterousco.com Note: When ordering parts, provide Pump, Transmission or PTO Serial Number.

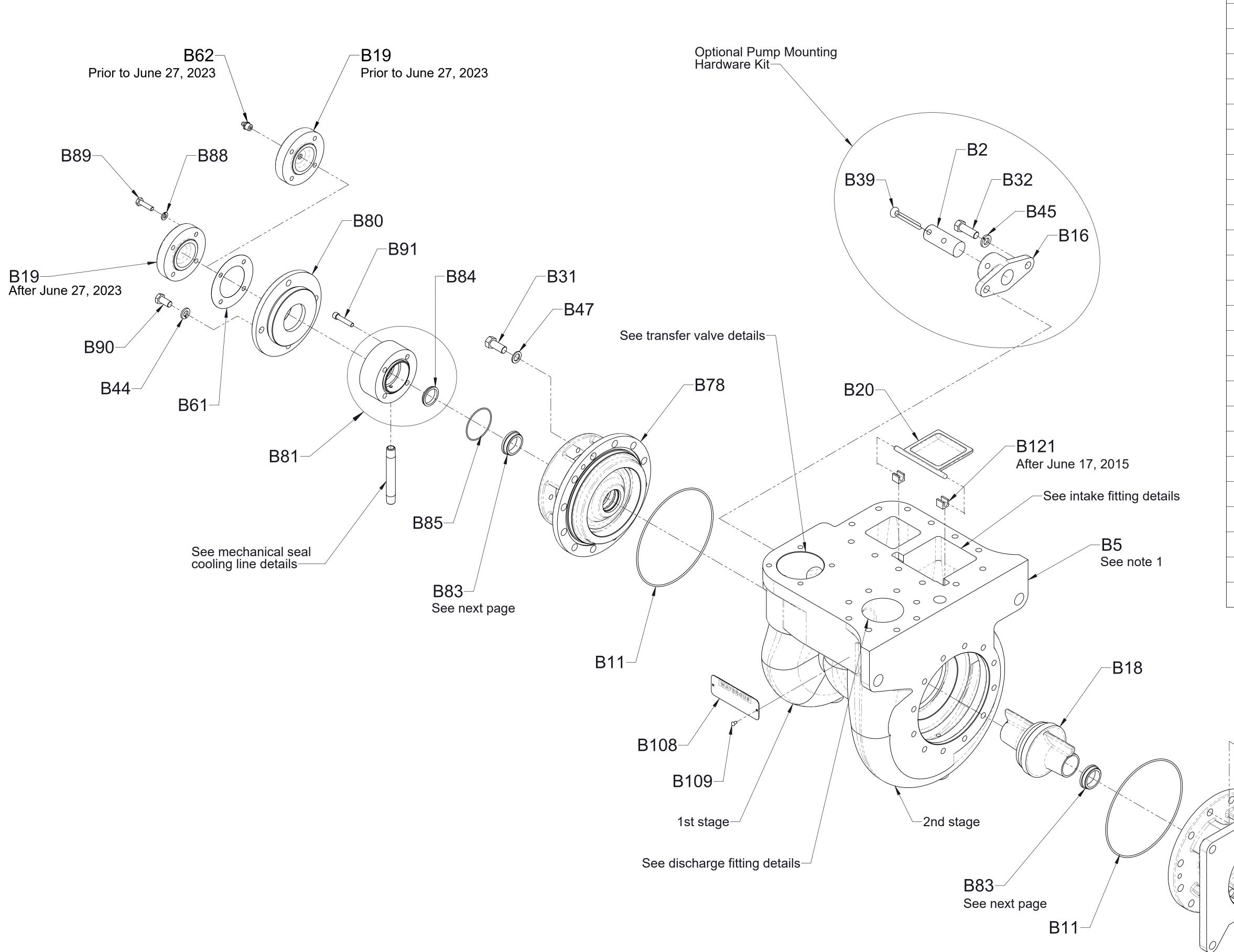
# **CP-3 Pump Body Service Parts List**

Comp	onent	See Page
	Components	2
	Head Bushing Installation	3
/e	Components	4
	Panel Plates	5
ling Lines	Pumps Built After March 15, 1995	6
ling Lines	Pumps Built Prior to March 15, 1995	7
ntake and Discharge Fittings		8



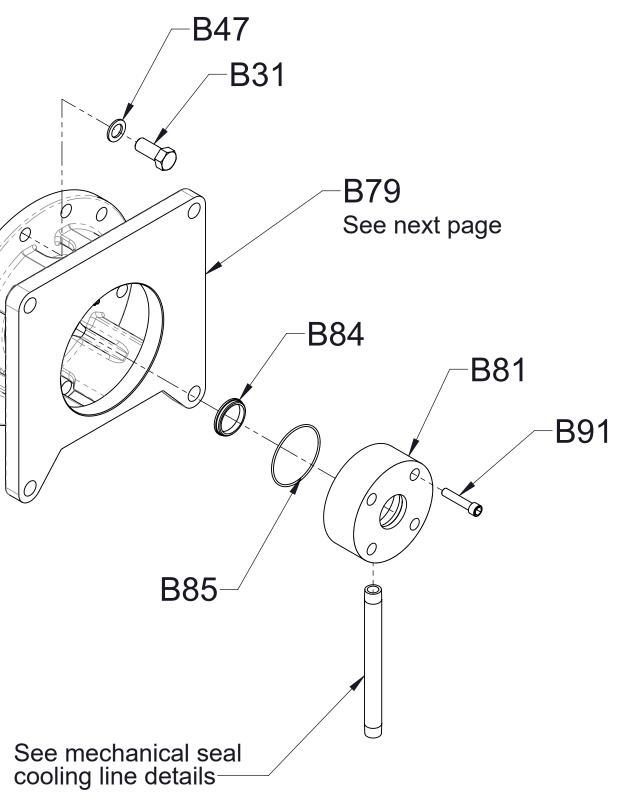




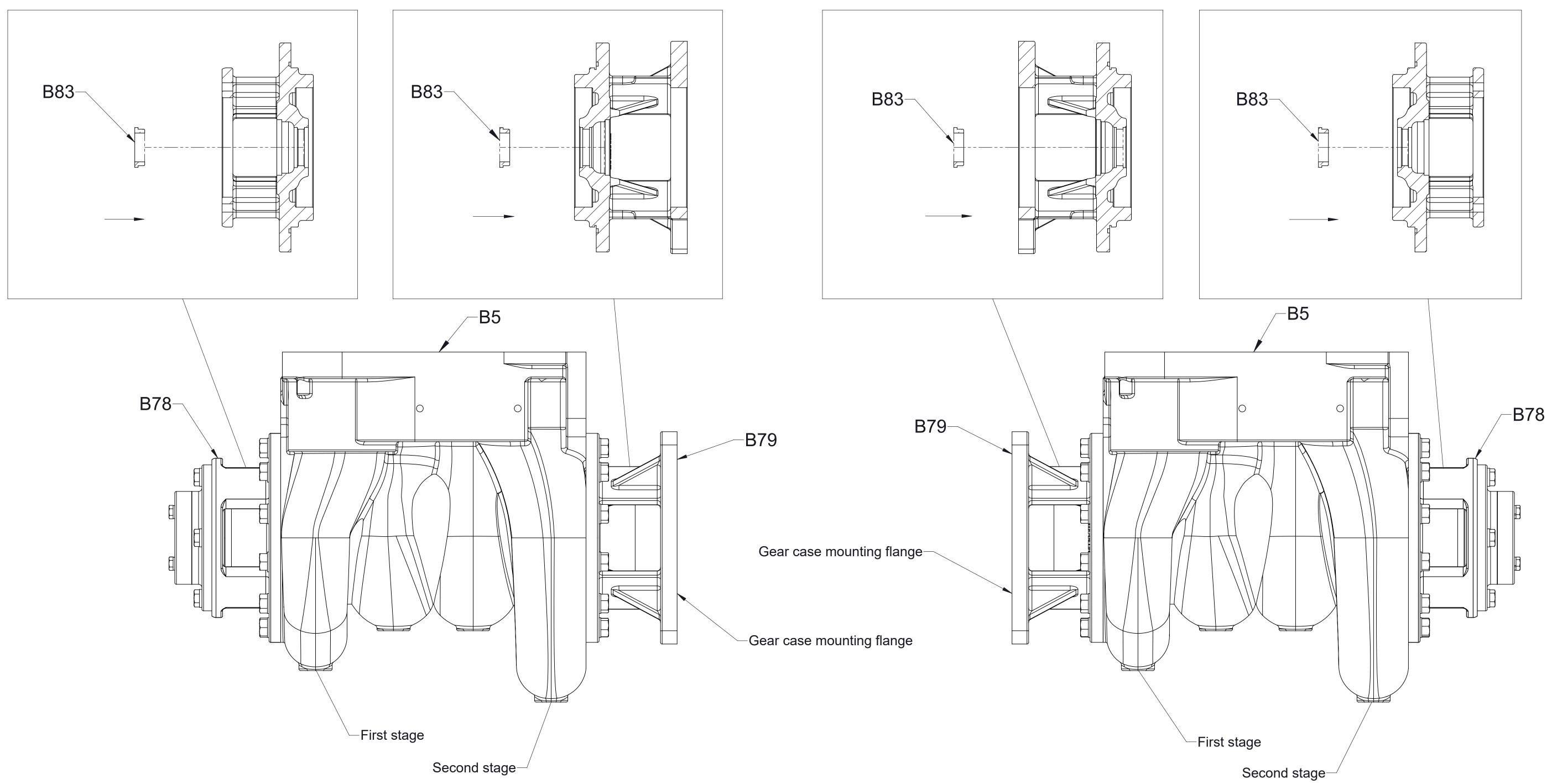


### Pump Body-Components

Ref No.	Description
B2	Pin-Suspension
B5	Body-Volute
B11	O-Ring, 6-1/4 x 6-7/16 in
B16	Bracket-Suspension
B18	Seal-Interstage
B19	Cover-Bearing, Housing
B20	Valve-Flap
B31	Screw-Hex Head, 7/16-14 x 1 in
B32	Screw-Hex Hd, 7/16-14 x 1-1/4 in
B39	Pin-Cotter, 5/16 x 2-1/2 in
B44	Washer-Lock, 3/8 in
B45	Washer-Lock, 7/16 in
B47	Washer-Flat, 7/16 in
B61	Gasket-Bearing Cover
B62	Fitting-Lubrication
B78	Head-Outboard
B79	Head-Inboard
B80	Housing-Bearing
B81	Mechanical Seal Housing Subassembly
B83	Bushing-Head
B84	Bushing-Throttle
B85	O-Ring, 2 x 2-1/8 in
B88	Washer-Lock, 1/4 in
B89	Screw-Hex Hd, 1/4-20 x 1 in
B90	Screw-Hex Hd, 3/8-16 x 3/4 in
B91	Screw-Cap, Hex Soc Hd, 1/4-20 x 1-1/4 in
B108	Plate-Serial
B109	Screw-Drive, #6 x 1/4 in
B121	Bushing-Flap, Valve



SPL81748 Page 2 of 8



Counter-Clockwise Input



**Clockwise Input** 

## Pump Body-Head Bushing Installation

Head position and bushing installation based on gear case input rotation

Ref No.	Description	
B5	Body-Volute	
B78	Head-Outboard	
B79	Head-Inboard	
B83	Bushing-Head	

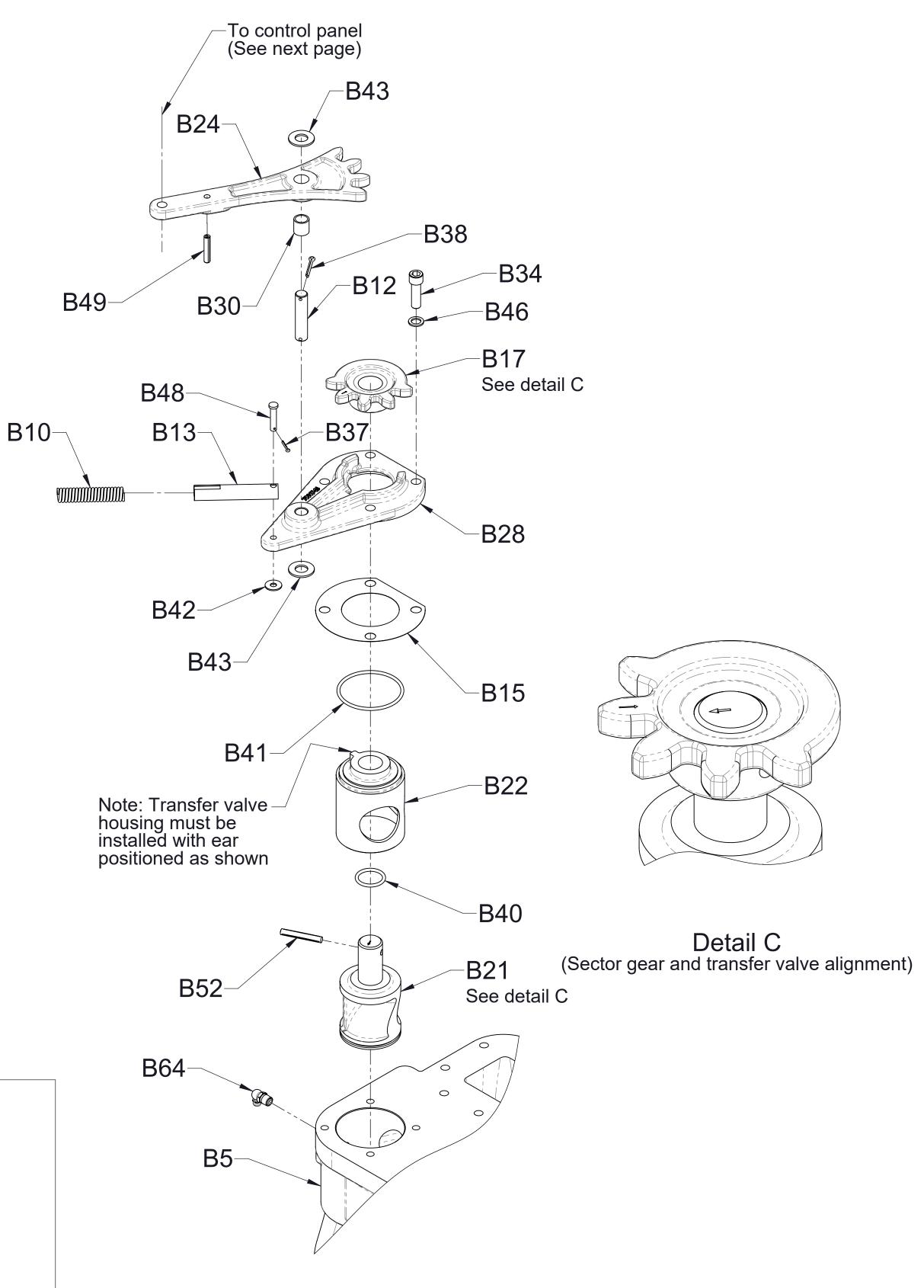


SPL81748 Page 3 of 8

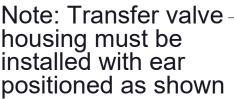
 To control panel (See next page) -B43 B24- $\mathbf{O}$  $\square$ B49-B38 **B**30 B12 B34 B37 -B48 B46 B13-B10-B17 See detail B B42-O -B28 B43-B41 -B15 Note: Transfer valve – housing must be installed with ear positioned as shown -B22 Detail B (Sector gear and transfer valve alignment) -B52 B40-T B21 See detail B B64-Co 0 B5-

Standard Position A (Parallel to Impeller Shaft)

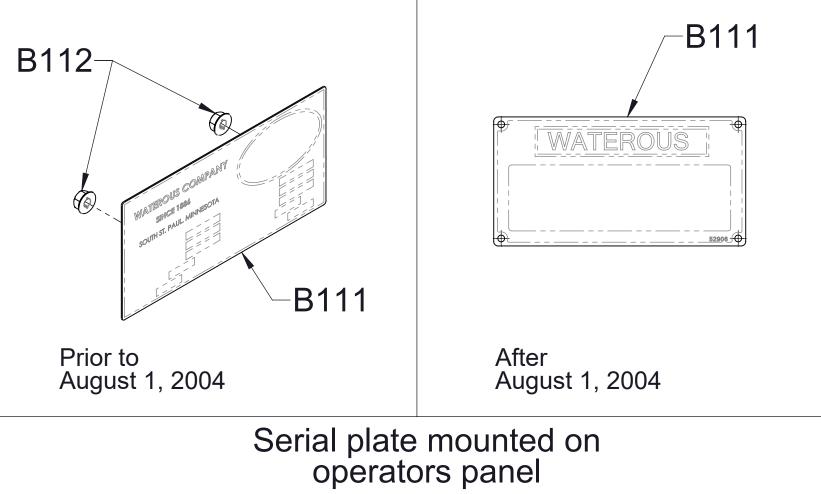
Ref No.	Description
B5	Body-Volute
B10	Spring
B12	Pin-Pivot
B13	Housing-Spring, Transfer Valve
B15	Gasket-Transfer Valve Cover
B17	Gear-Sector
B21	Valve-Transfer
B22	Housing-Transfer Valve
B24	Arm Assembly-Manual Transfer Valve
B28	Cover-Manual Transfer Valve
B30	Bearing, Sleeve, Self-Lubricating
B34	Screw-Cap, Hex Soc Hd, 3/8-16 x 1-1/4 in
B37	Pin-Cotter, 5/64 x 1/2 in
B38	Pin-Cotter, 1/8 x 1 in
B40	O-Ring, 1 x 1-1/4 in
B41	O-Ring, 2-1/2 x 2-3/4 in
B42	Washer-Flat, 1/4 in
B43	Washer-Plain, 1/2 in
B46	Washer-Flat, 3/8 in
B48	Pin-Clevis, 1/4 x 1-1/4 in
B49	Pin-Spirol, 1/4 x 1-1/4 in
B52	Pin-Groove, 1/4 x 1-3/4
B64	Fitting-Lubrication, 1/8 NPT, Leakproof, 90°
B111	Plate-Serial
B112	Nut-Self Threading





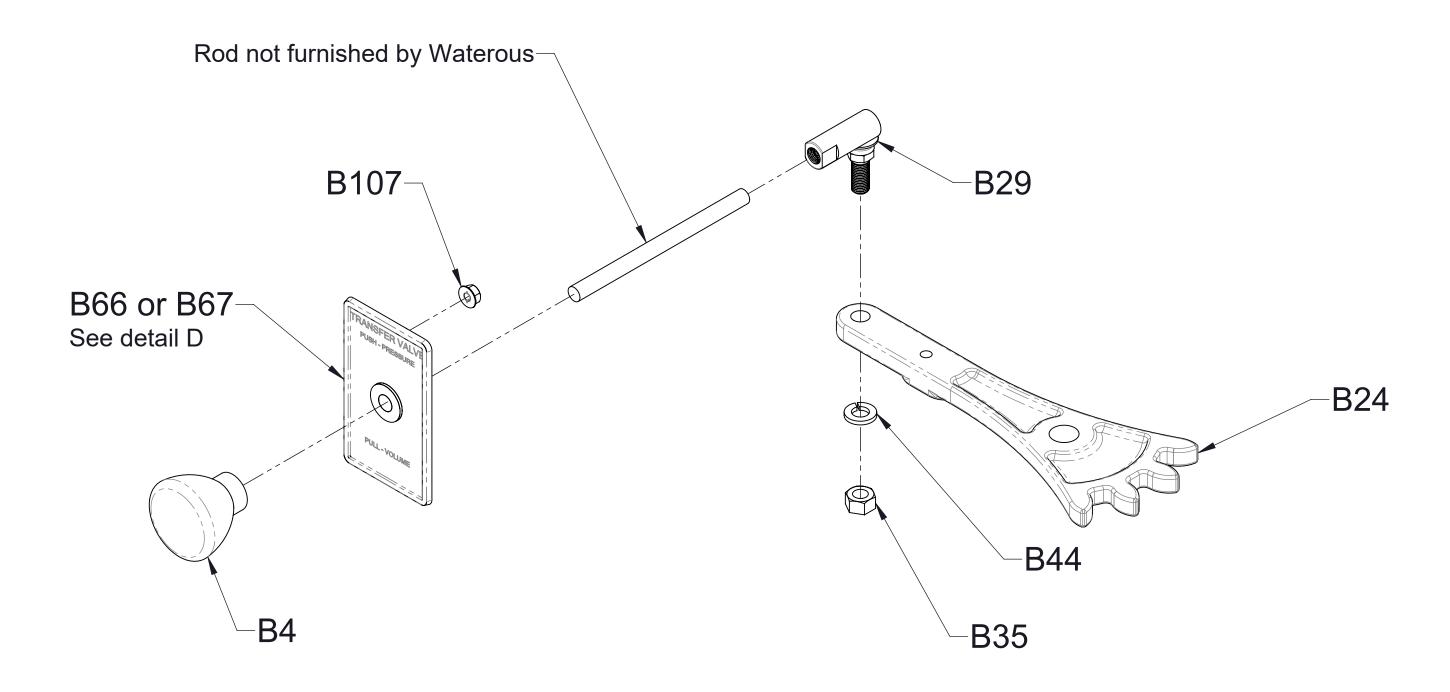


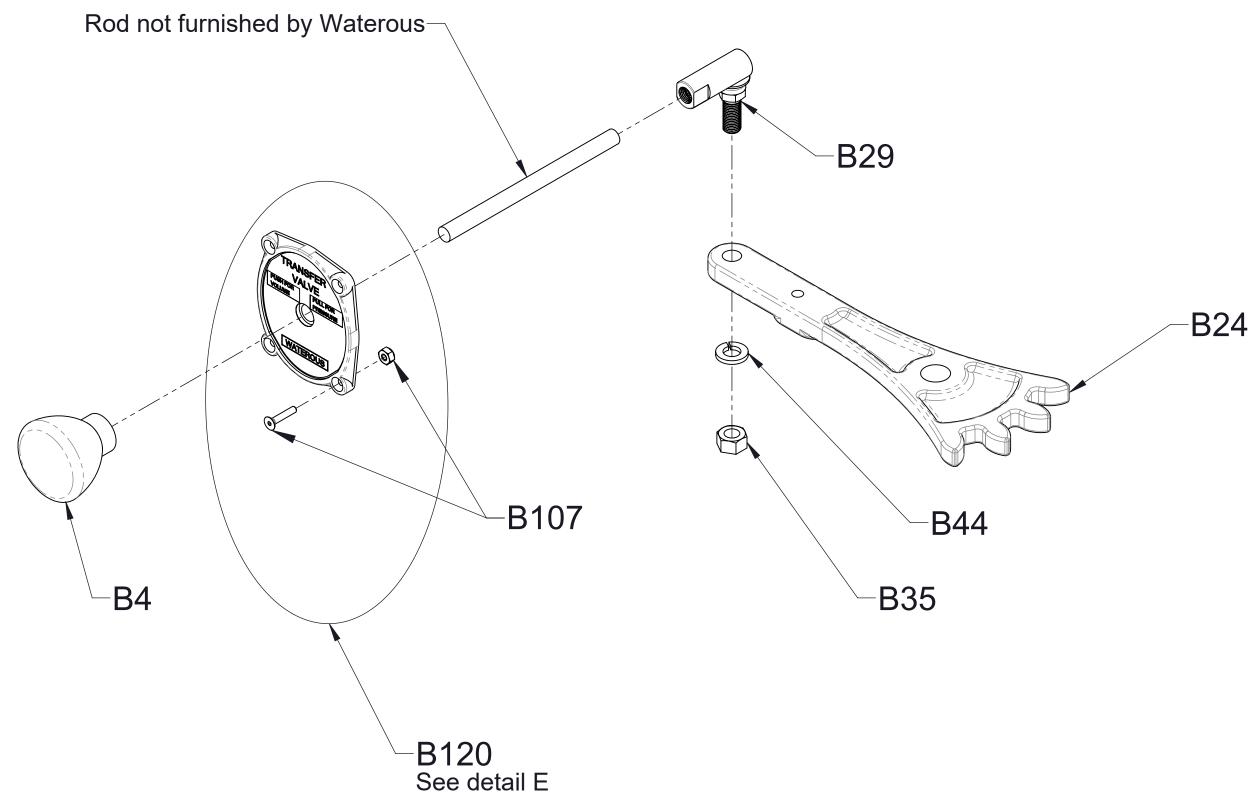


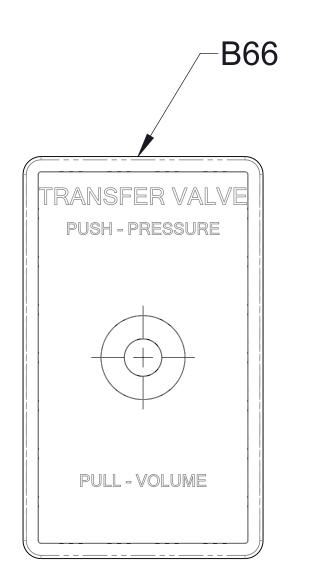


Optional Position B (Perpendicular to Impeller Shaft)

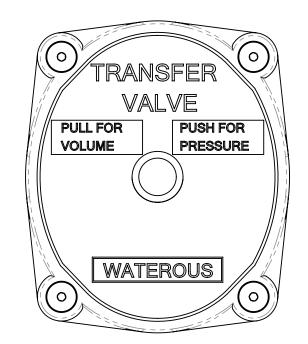
SPL81748 Page 4 of 8







Prior to April 21, 2006

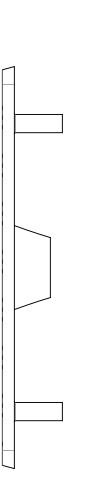


Note: Depending on installation of pump, panel can be configured either way by using the correct label provided with control panel (B120).

After April 21, 2006

### **Transfer Valve-Panel Plates**

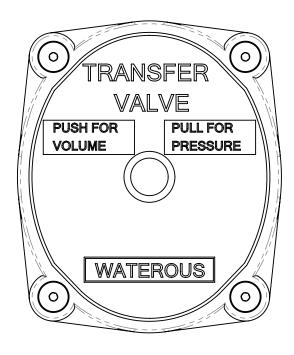
Ref No.	Description
B4	Knob-Drain Valve
B24	Arm Assembly-Manual Transfer Valve
B29	Ball Joint, 3/8-24
B35	Nut-Hex, 3/8-24
B44	Washer-Lock, 3/8 in
B66	Plate-Panel (Prior to April 21, 2006)
B77	Plate-Panel (Prior to April 21, 2006)
B107	Control Panel Hardware
B120	Control Panel (After April 21, 2006)





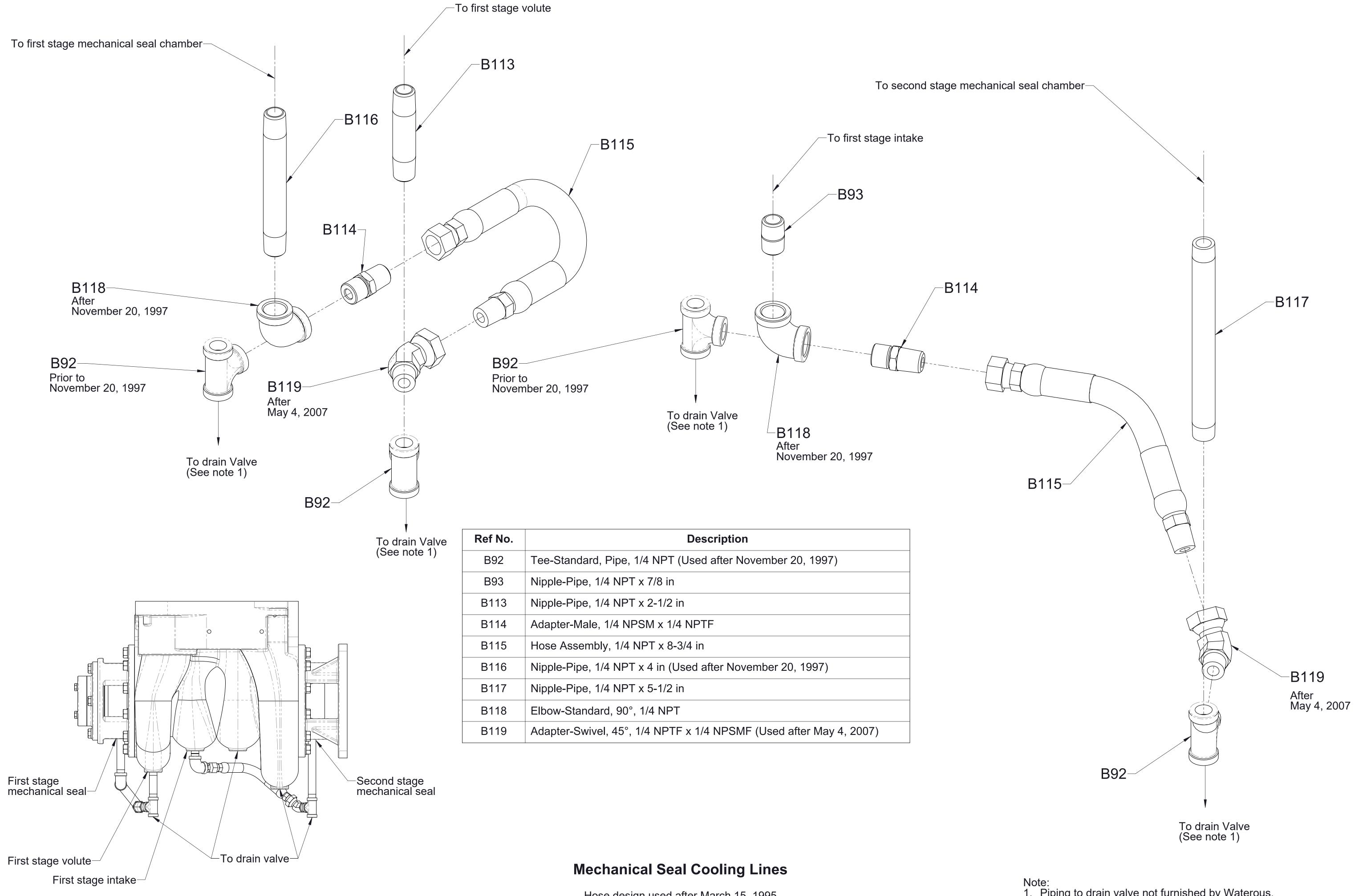
### Detail D

Note: Depending on installation of pump, either B66 or B77 is installed on panel.



### Detail E

SPL81748 Page 5 of 8



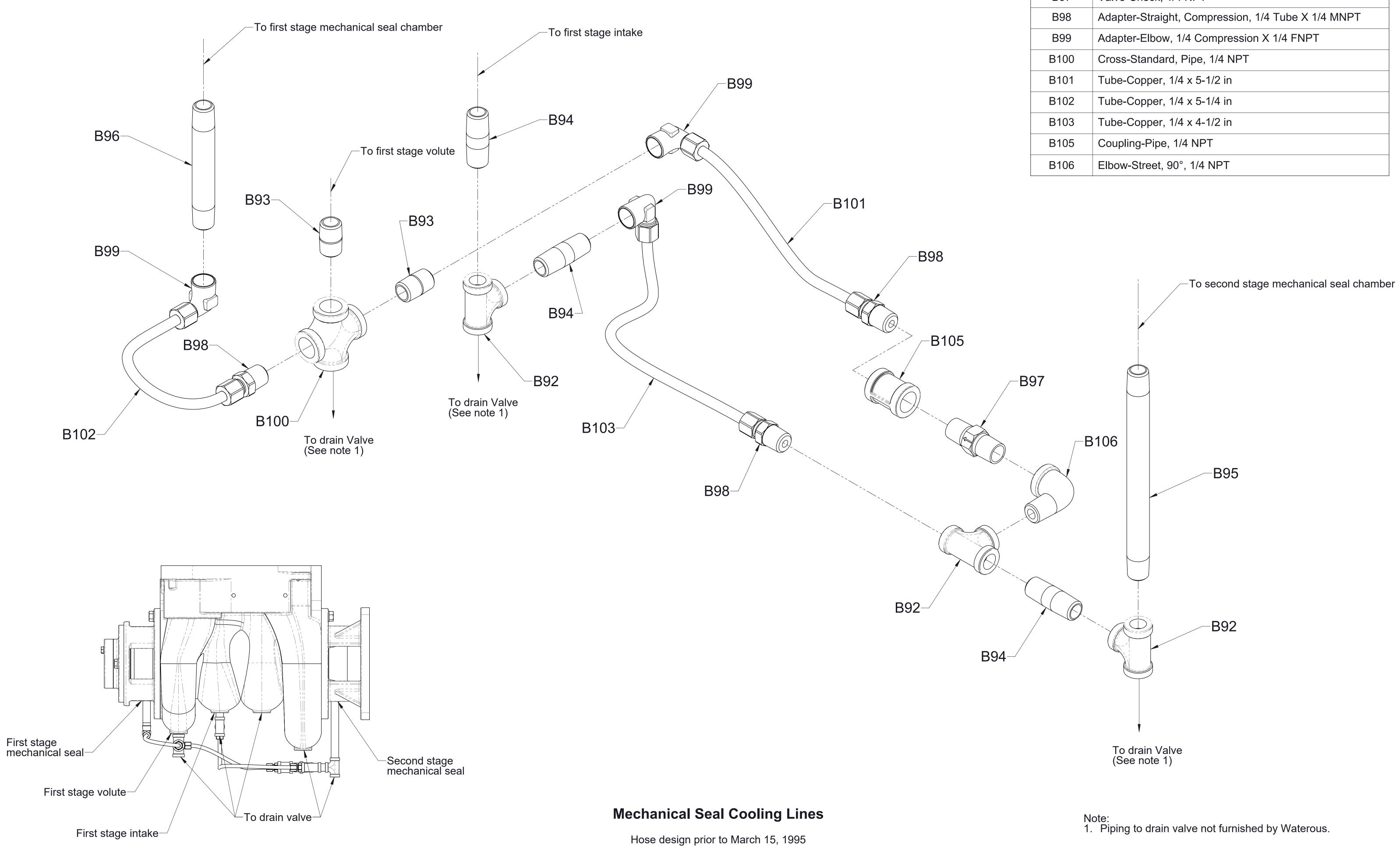
**Cooling Line Configuration** 

ef No.	Description
B92	Tee-Standard, Pipe, 1/4 NPT (Used after November 20, 1997)
B93	Nipple-Pipe, 1/4 NPT x 7/8 in
3113	Nipple-Pipe, 1/4 NPT x 2-1/2 in
3114	Adapter-Male, 1/4 NPSM x 1/4 NPTF
3115	Hose Assembly, 1/4 NPT x 8-3/4 in
3116	Nipple-Pipe, 1/4 NPT x 4 in (Used after November 20, 1997)
3117	Nipple-Pipe, 1/4 NPT x 5-1/2 in
3118	Elbow-Standard, 90°, 1/4 NPT
3119	Adapter-Swivel, 45°, 1/4 NPTF x 1/4 NPSMF (Used after May 4, 2007)

Hose design used after March 15, 1995

Note: 1. Piping to drain valve not furnished by Waterous.

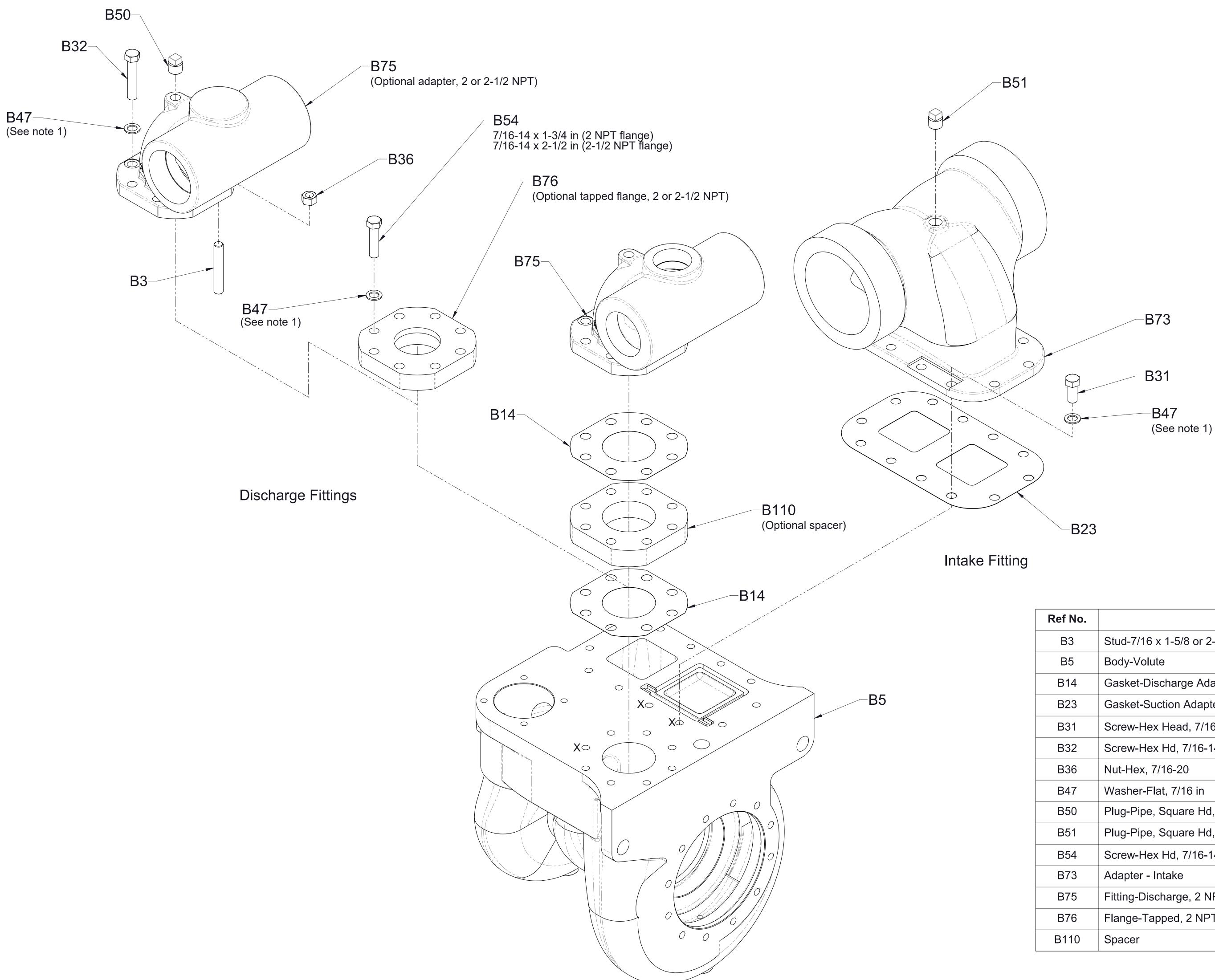
SPL81748 Page 6 of 8

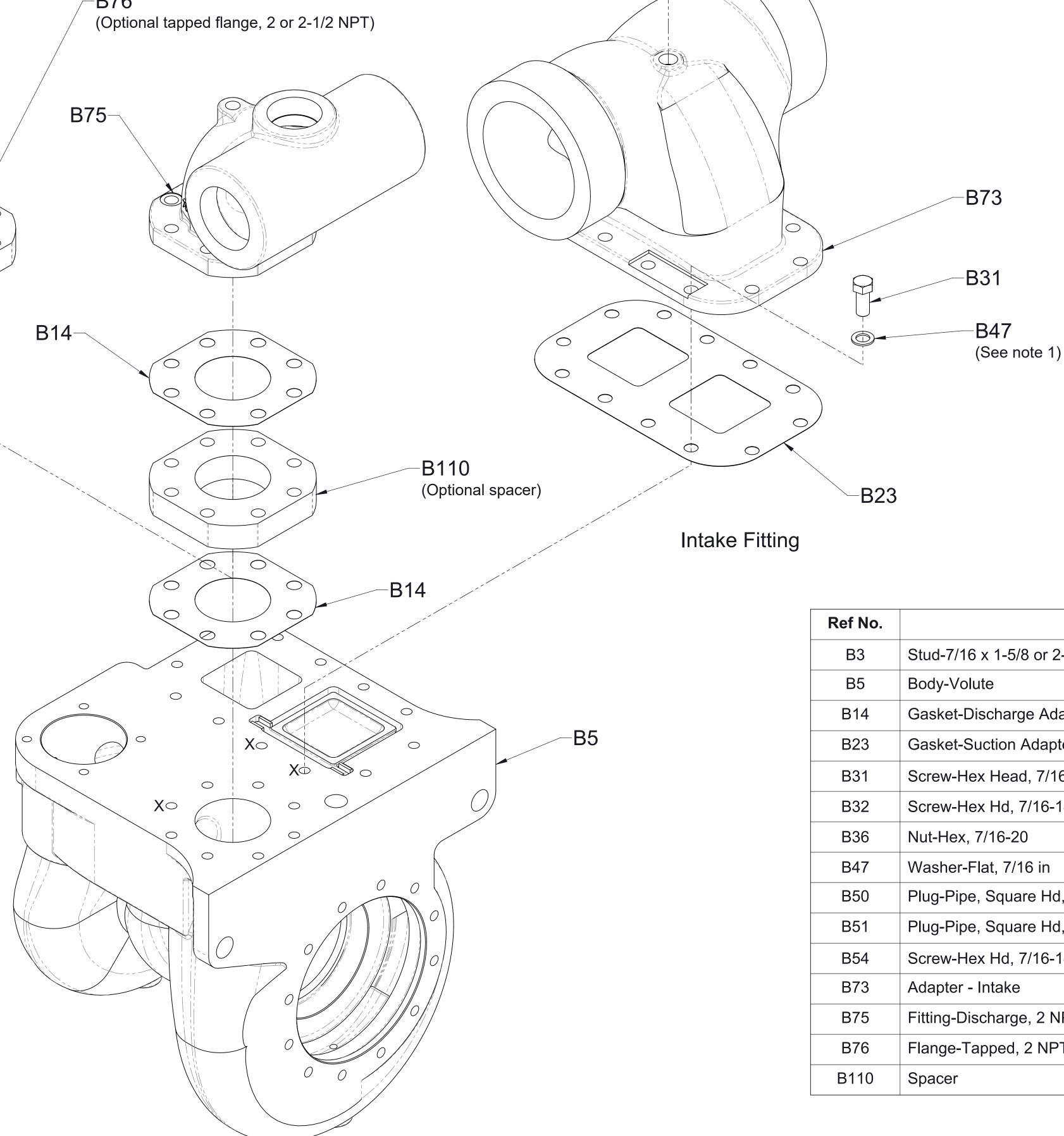


**Cooling Line Configuration** 

Description ipe, 1/4 NPT NPT x 7/8 in
•
NPT x 7/8 in
NPT x 1-1/2 in
NPT x 6 in
NPT x 3-1/2 in
NPT
Compression, 1/4 Tube X 1/4 MNPT
/4 Compression X 1/4 FNPT
Pipe, 1/4 NPT
4 x 5-1/2 in
4 x 5-1/4 in
4 x 4-1/2 in
/4 NPT
°, 1/4 NPT

SPL81748 Page 7 of 8





Ref No.	Description
B3	Stud-7/16 x 1-5/8 or 2-3/4 in
B5	Body-Volute
B14	Gasket-Discharge Adapter
B23	Gasket-Suction Adapter
B31	Screw-Hex Head, 7/16-14 x 1 in
B32	Screw-Hex Hd, 7/16-14 x 1-1/4 in
B36	Nut-Hex, 7/16-20
B47	Washer-Flat, 7/16 in
B50	Plug-Pipe, Square Hd, 1/4 NPT
B51	Plug-Pipe, Square Hd, 3/8 NPT
B54	Screw-Hex Hd, 7/16-14 x 1-3/4 or 2-1/2 in
B73	Adapter - Intake
B75	Fitting-Discharge, 2 NPT or 2-1/2 NPT
B76	Flange-Tapped, 2 NPT or 2-1/2 NPT
B110	Spacer