



Document Number	Issue Date	Rev. Date
<b>F-2466</b>	<b>10/10/00</b>	<b>06/05/09</b>

## Pump Intake and Discharge Diagrams

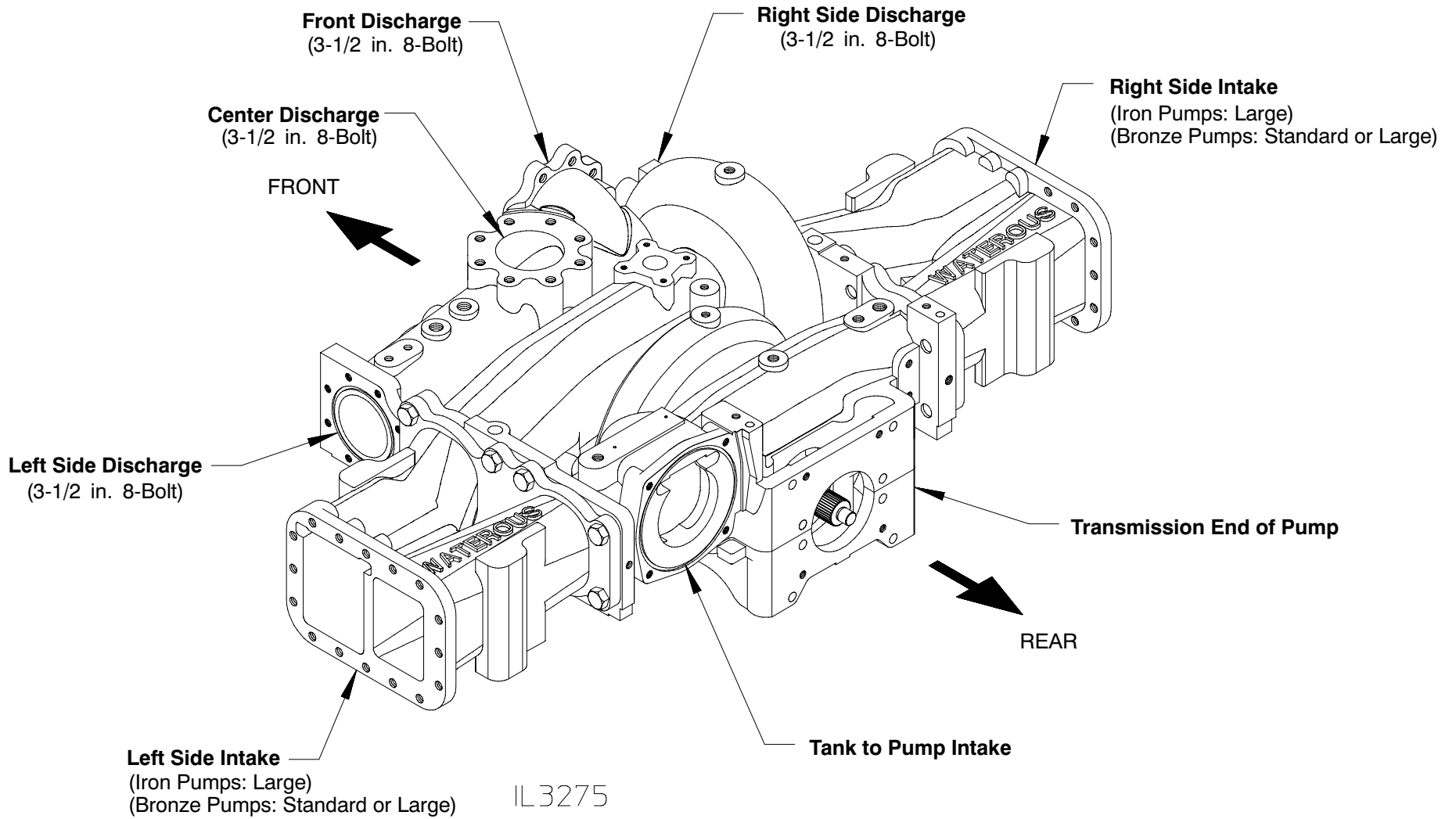
*Diagrams Defining Left and Right Sides Plus Any Available Intake and Discharge Pads*

Pump Model	Transmission			Impeller Rotation (2)	See Page					
	Model	Input Rotation (1)	Pump Body Mounting		Pump Discharge					
					Various	Manifold with 3-1/2 in. End Flanges		Manifold with 4 in. End Flanges		
				Perpendicular to Intake		Parallel to Intake	Perpendicular to Intake	Parallel to Intake		
CM,CS	C10, C20, PA, K, D	CW or CCW	-	-	2	-	-	-	-	
CLS	WB, PA	CW	-	CW	3	-	-	-	-	
	K	CW	-	CW	3	-	-	-	-	
		CCW	-	CCW	4	-	-	-	-	
CLR, CLV	K, T	CW	-	CW	5	-	-	-	-	
		CCW	-	CCW	6	-	-	-	-	
CGVG	C10, C20, PA, WB	CW	-	CW	7	-	-	-	-	
	K	CW	-	CW	7	-	-	-	-	
		CCW	-	CCW	8	-	-	-	-	
CXN, CXS, CXR, CXV	C10, C20, PA	CW	-	CW	-	9	-	11	18	
	K, T	CW	-	CW	-	9	-	11	18	
		CCW	-	CCW	-	10	-	12	19	
S100	C10, C20, PA	CW	Front (Input Shaft Side)	CW	-	-	-	13	20	
			Rear (Output Shaft Side)	CCW	-	-	-	14	21	
	D (Direct Drive)	CW	-	CCW	-	-	-	-	15	22
			-	CW	-	-	-	-	16	23
S101	C20	CW	Front (Input Shaft Side)	CW	-	-	-	17	-	
HL200, HL300	Direct Drive	CW	-	CCW	24	-	-	-	-	

**Notes:**

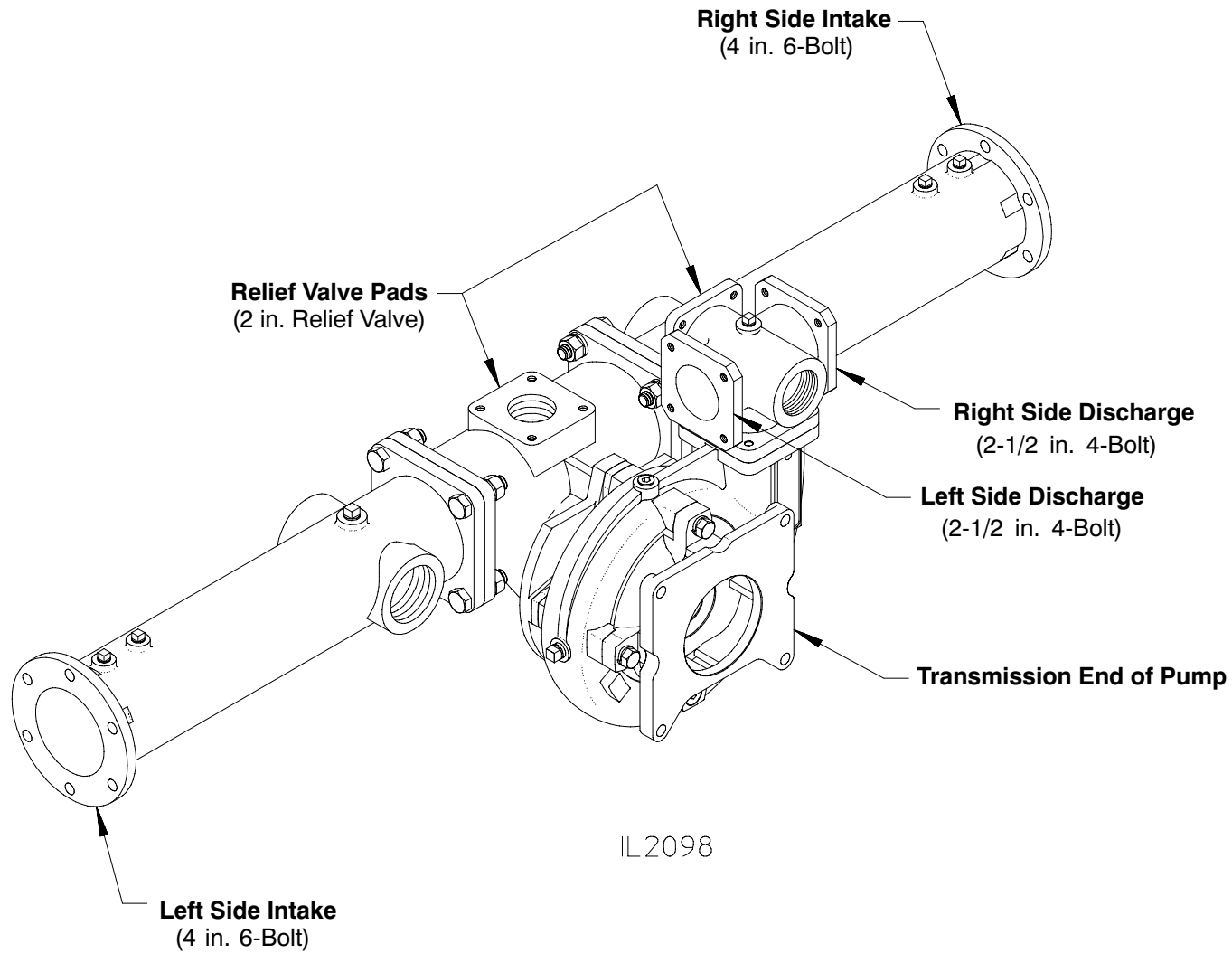
1. Input rotation is viewed looking at input shaft.
2. Impeller rotation is viewed looking at impeller eye.

CM/CS



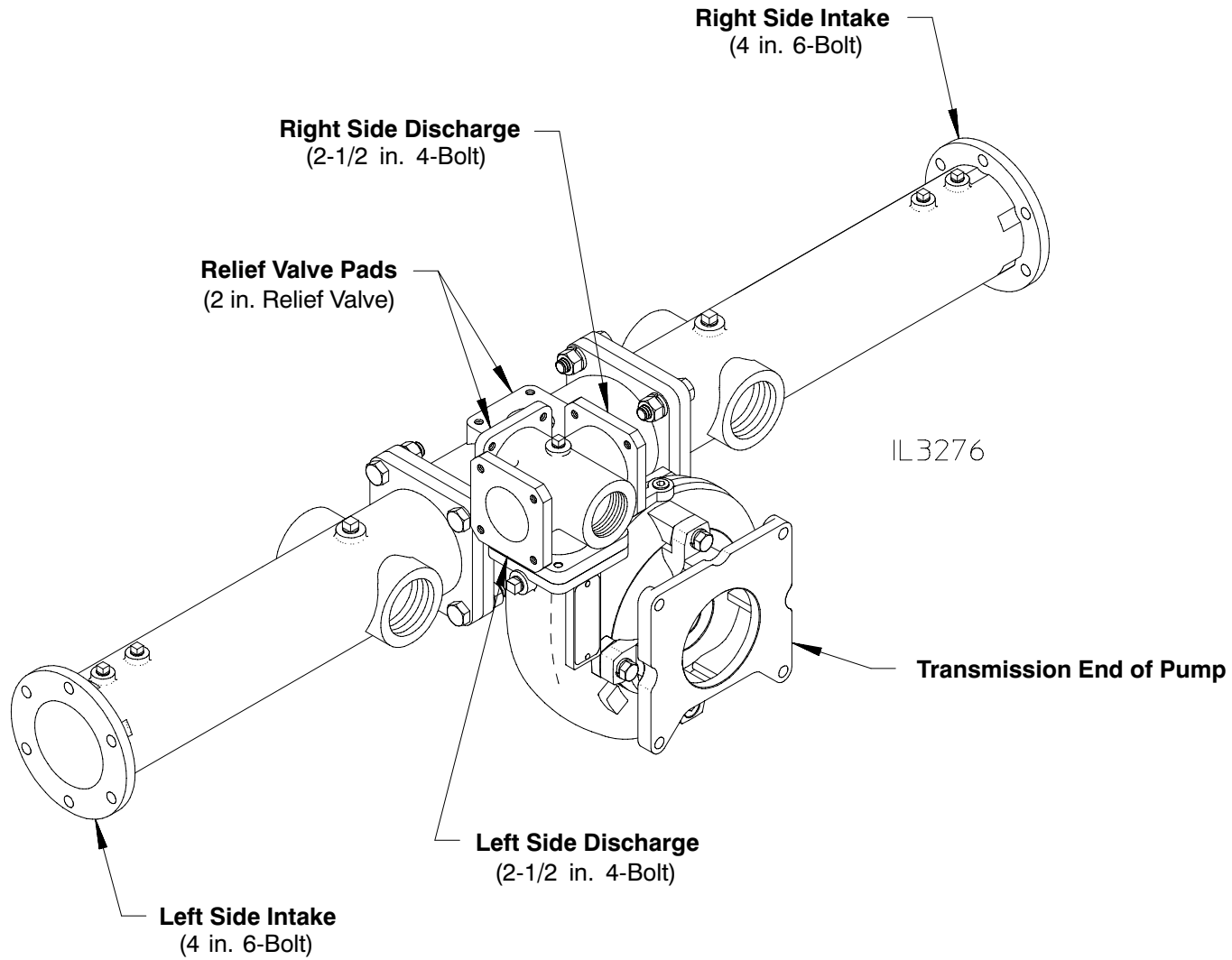
**Note: Left and Right are Defined as Viewed From Rear (Transmission) End of Pump.**

# CLS, CW Impeller Rotation



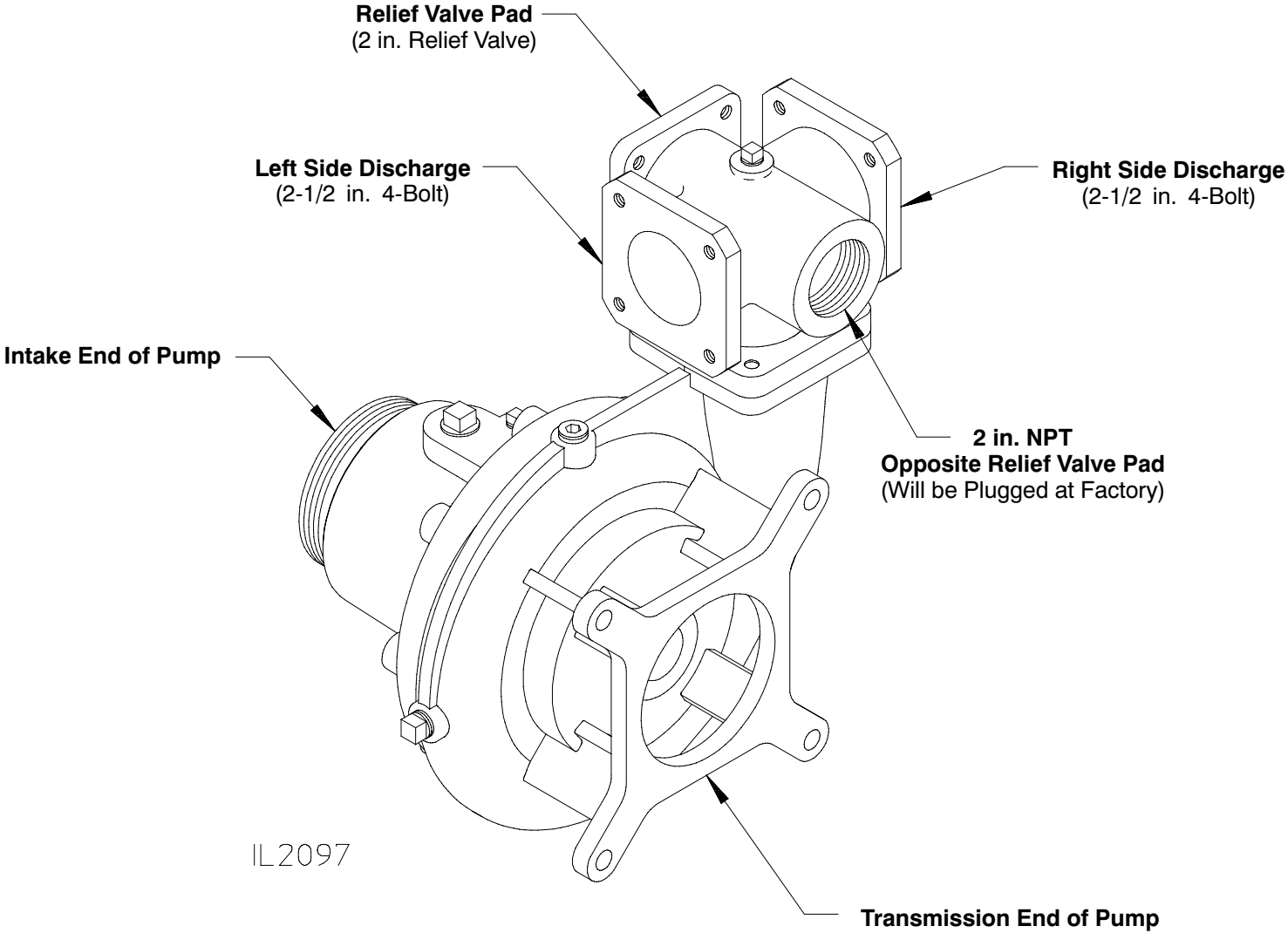
**Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.**

# CLS, CCW Impeller Rotation



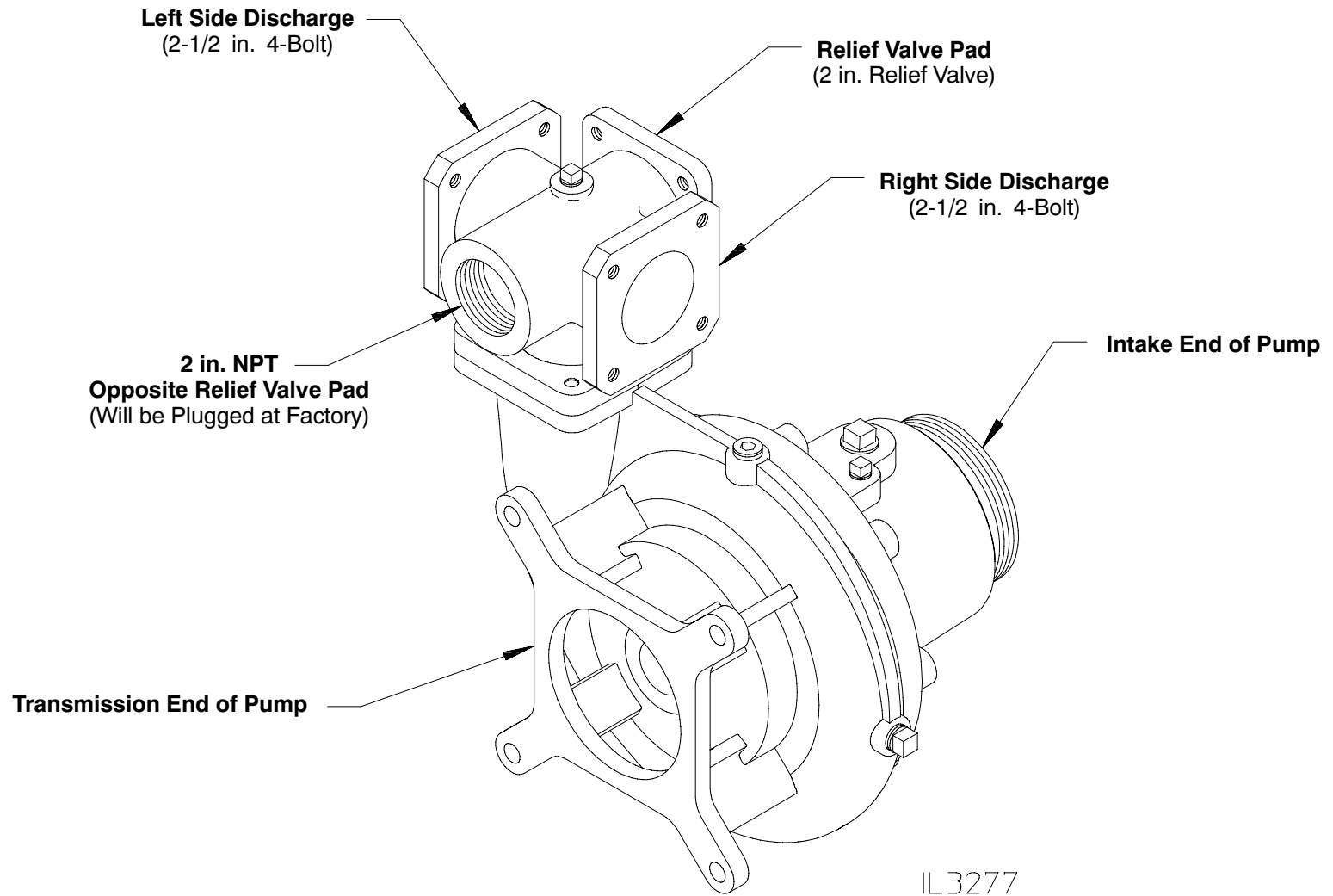
**Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.**

CLR/CLV, CW Impeller Rotation



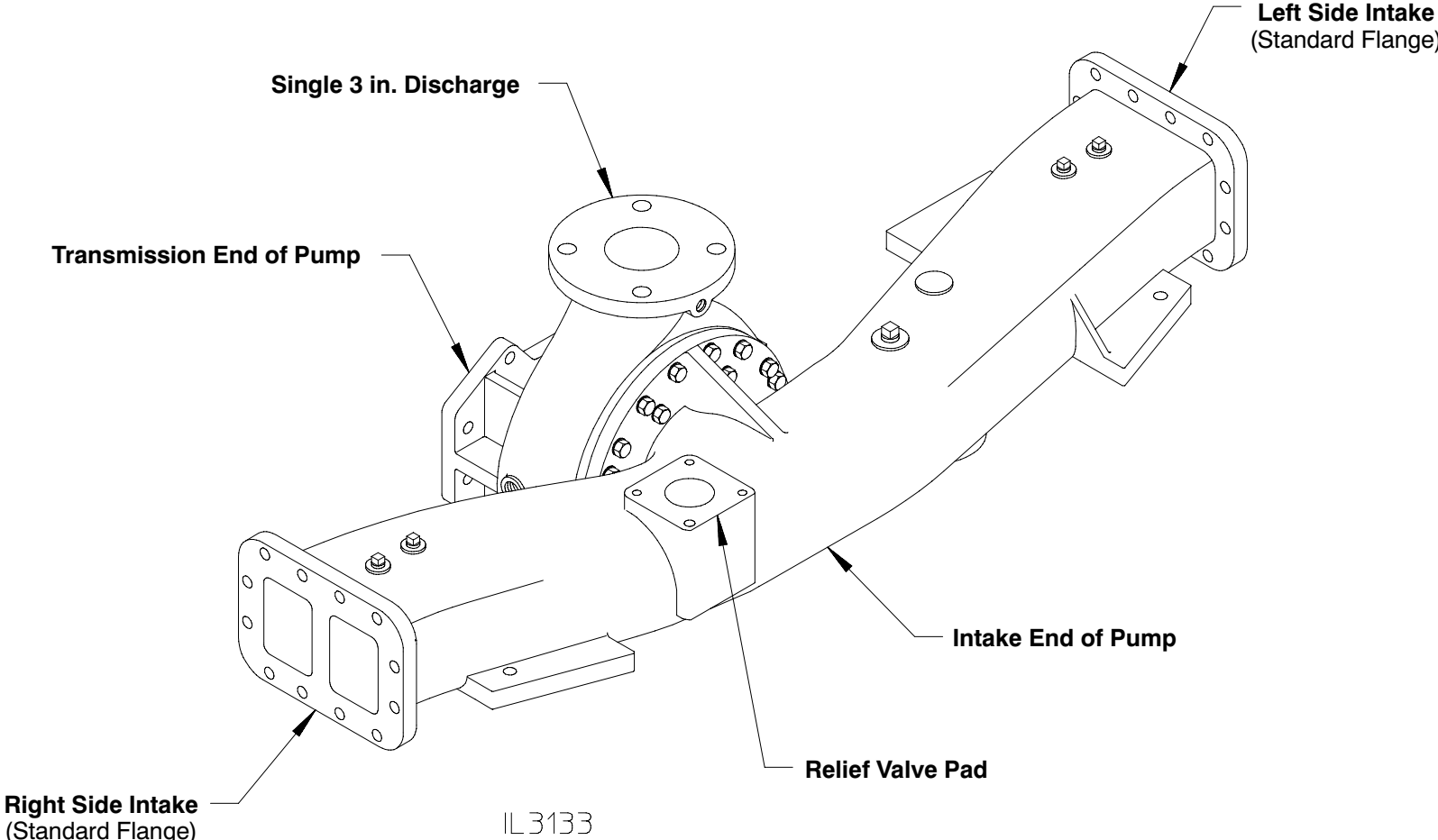
**Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.**

## CLR/CLV, CCW Impeller Rotation



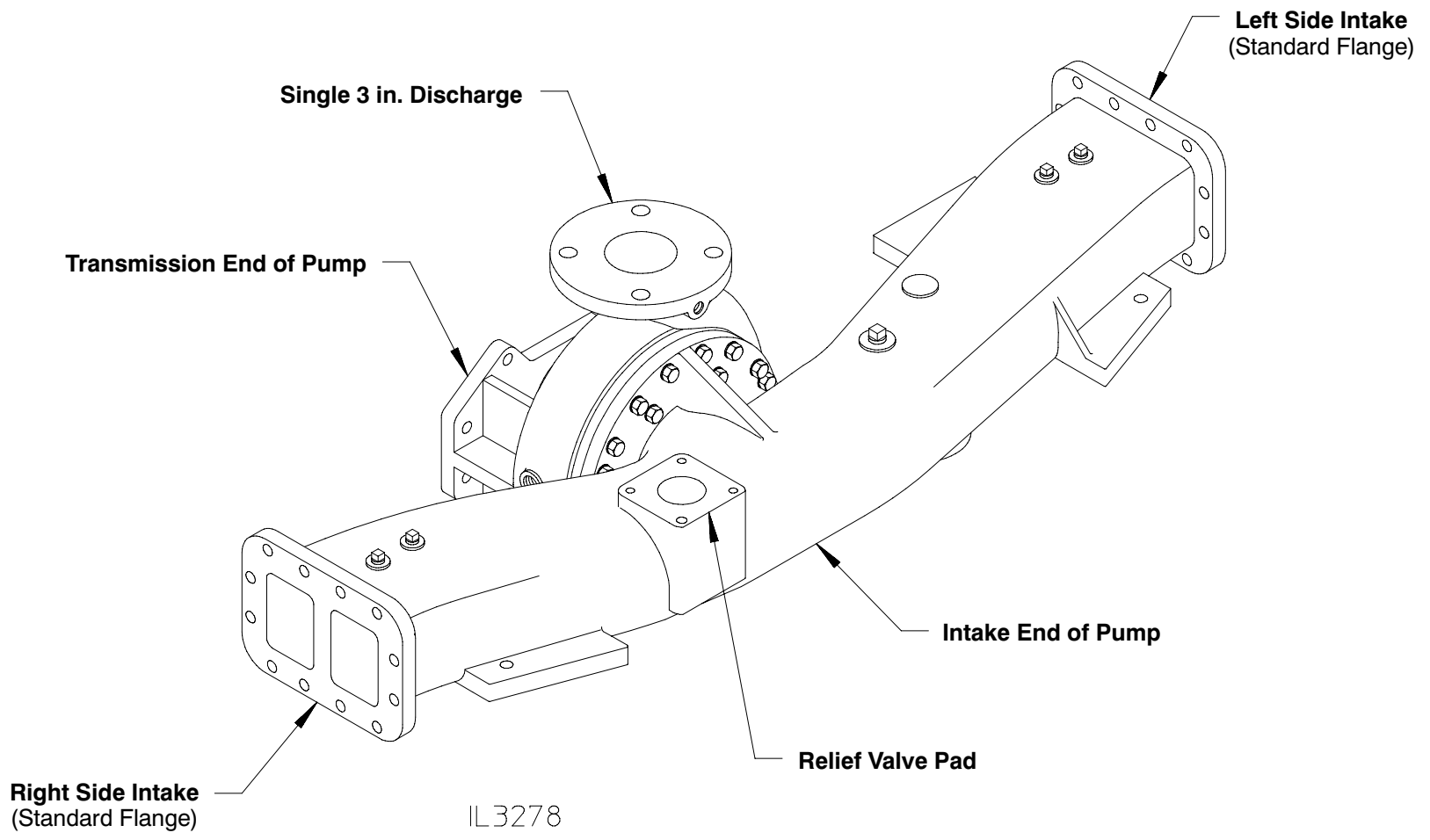
**Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.**

CGVG, CW Impeller Rotation



Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.

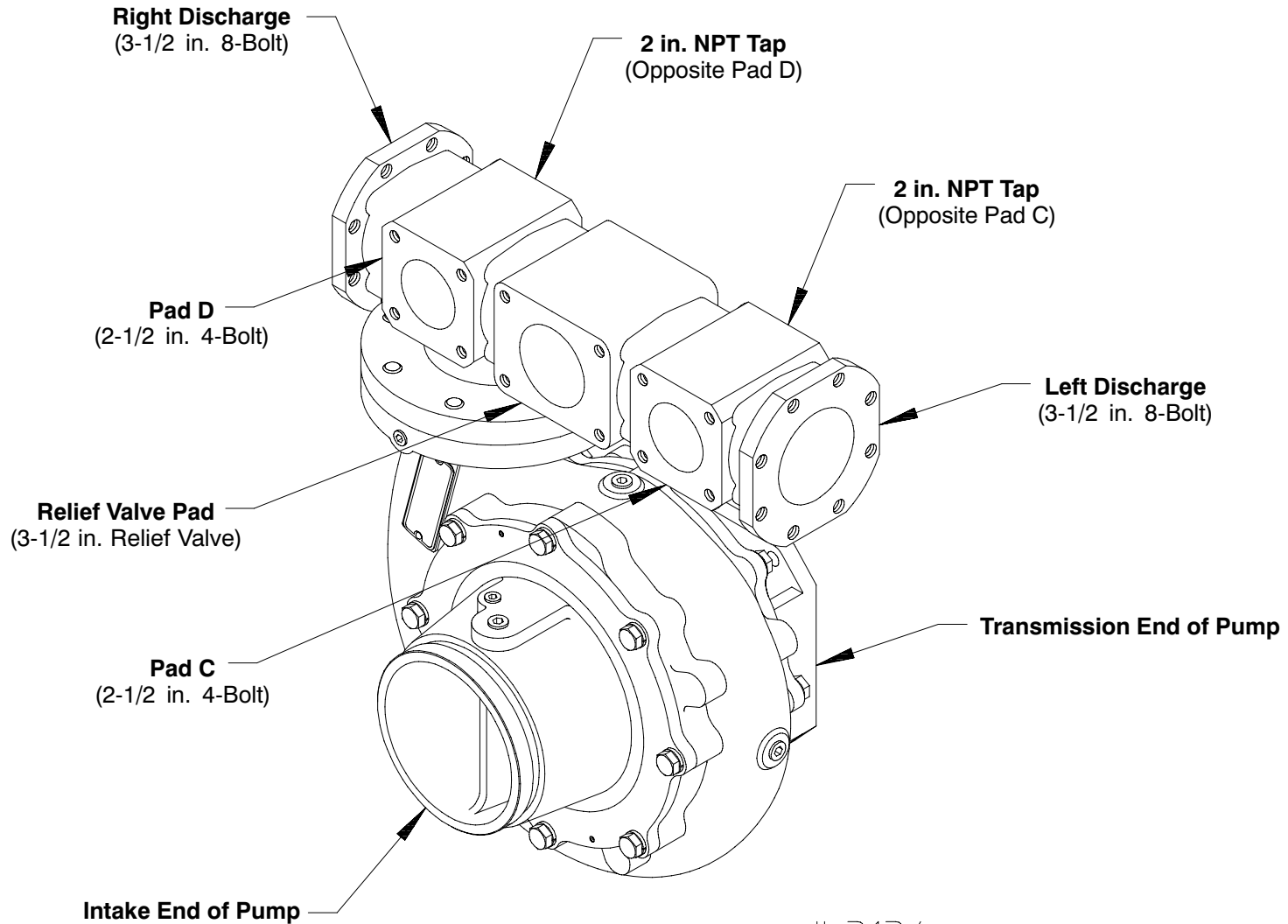
CGVG, CCW Impeller Rotation



**Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.**



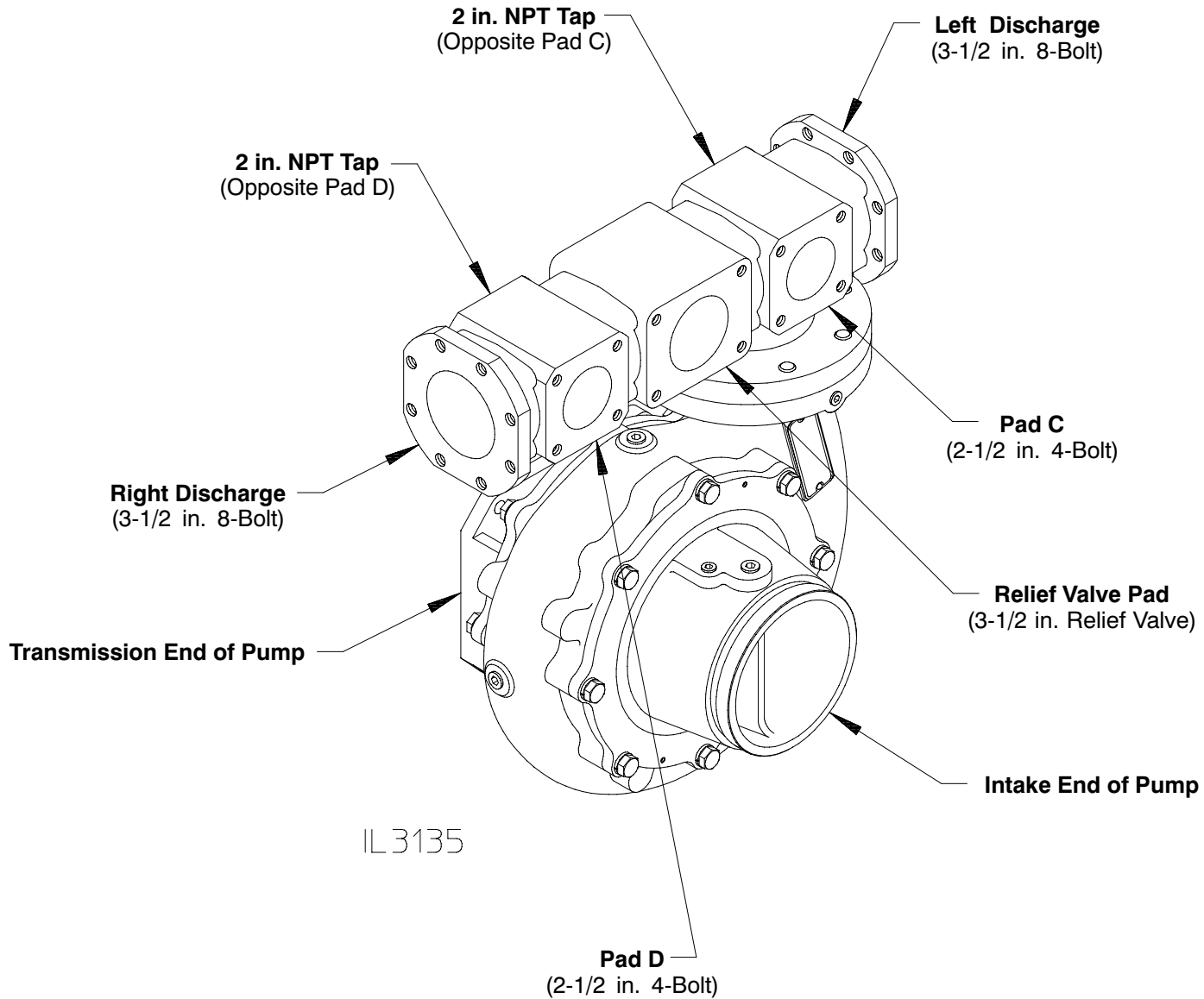
**CX Series, CW Impeller Rotation**  
**Manifold with 3-1/2 in. End Flanges - Perpendicular to Intake**



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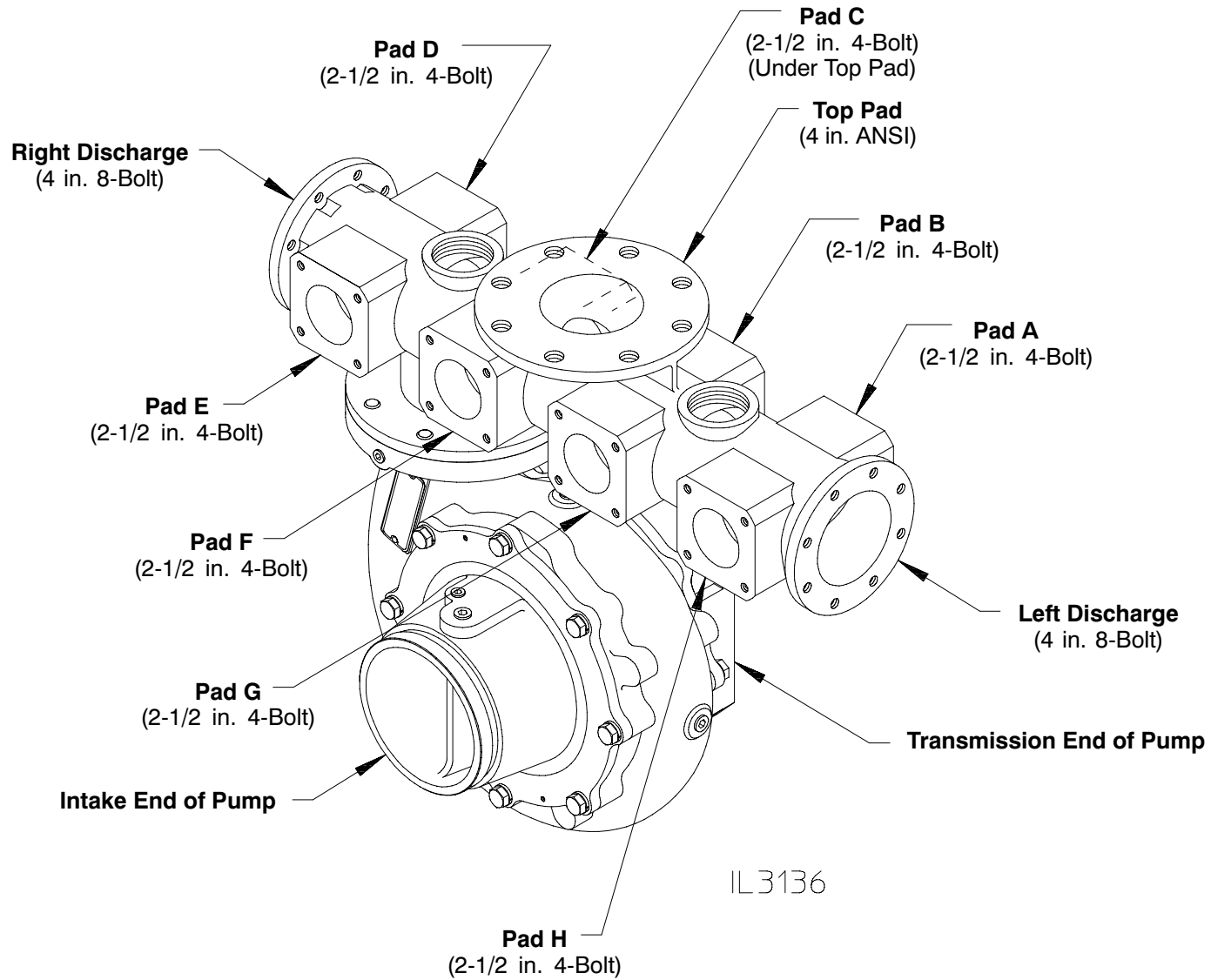
**Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.**

**CX Series, CCW Impeller Rotation**  
**Manifold with 3-1/2 in. End Flanges - Perpendicular to Intake**



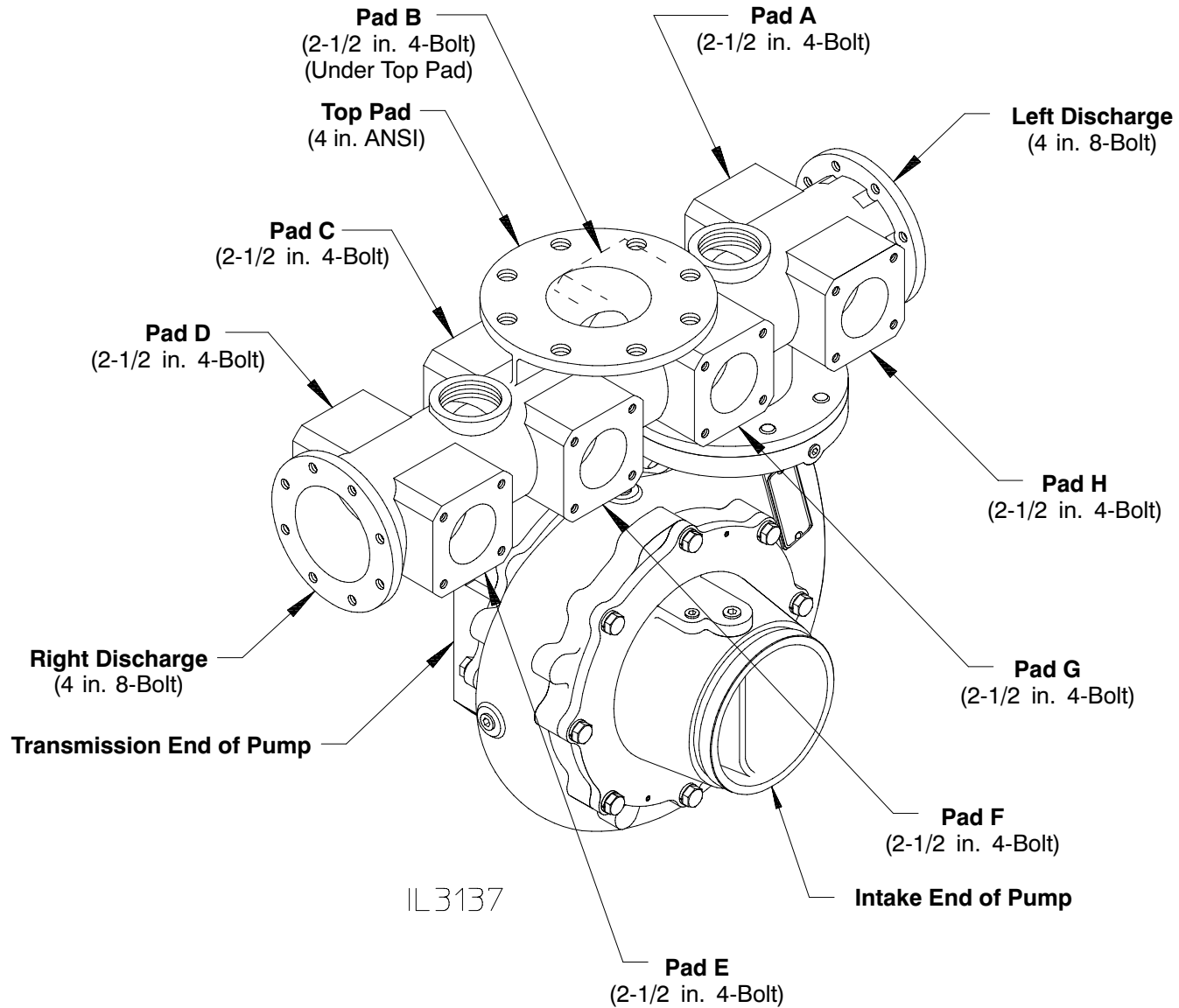
**Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.**

**CX Series, CW Impeller Rotation**  
**Manifold with 4 in. End Flanges - Perpendicular to Intake**



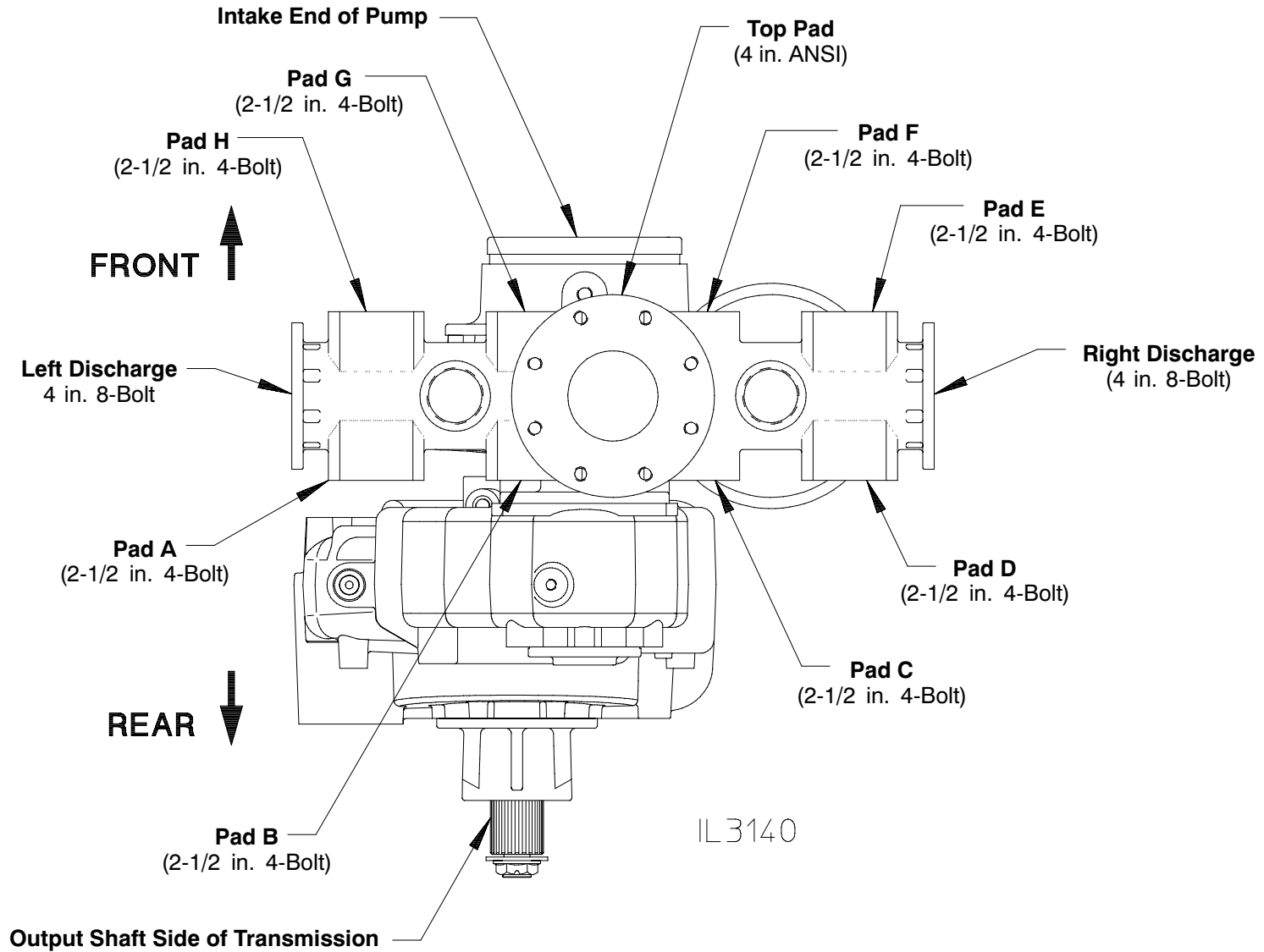
**Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.**

**CX Series, CCW Impeller Rotation**  
Manifold with 4 in. End Flanges - Perpendicular to Intake



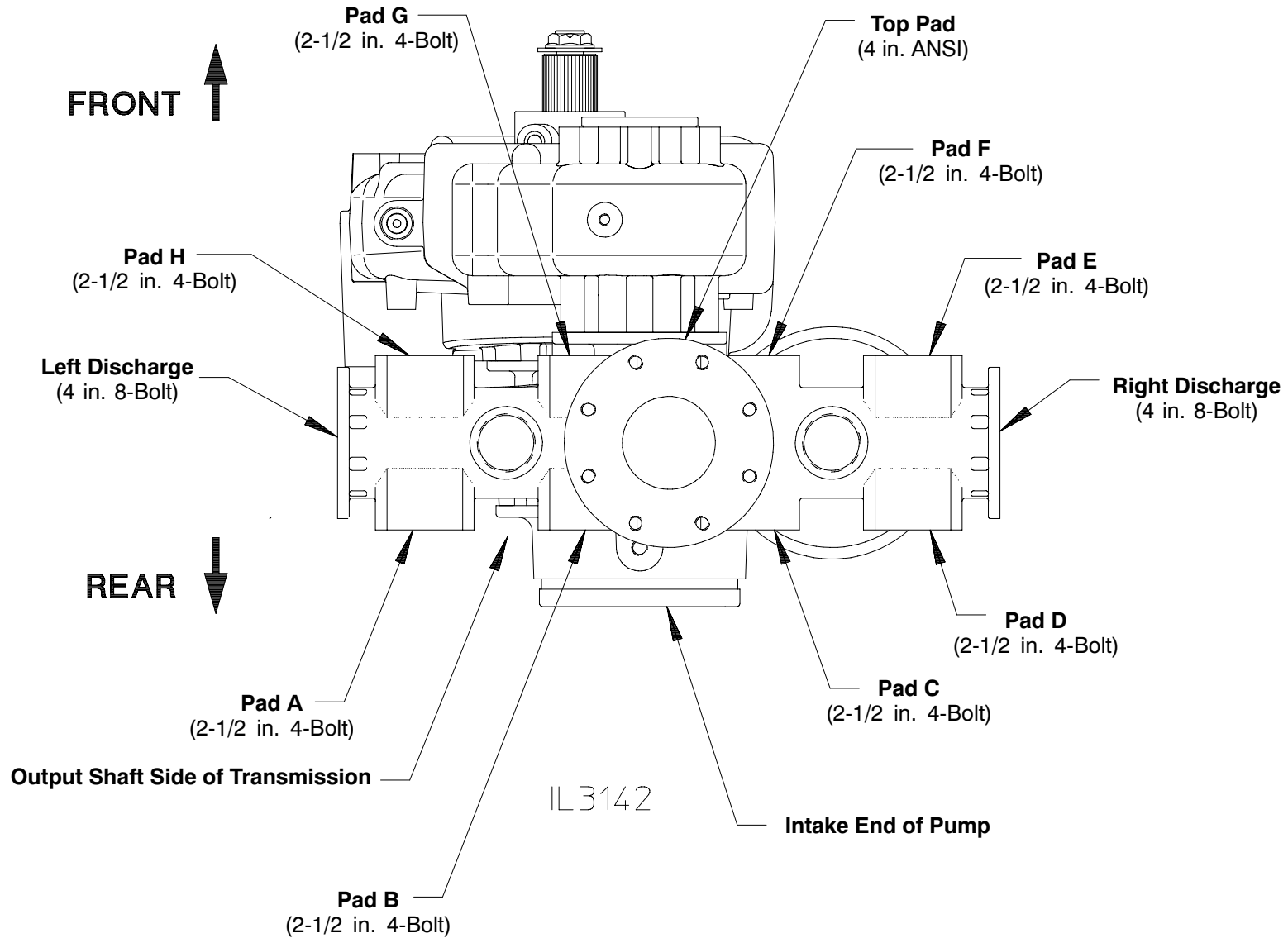
**Note: Left and Right are Defined as Viewed From the Transmission End of the Pump.**

S100 Series, CW Impeller Rotation  
Manifold with 4 in. End Flanges - Perpendicular to Intake



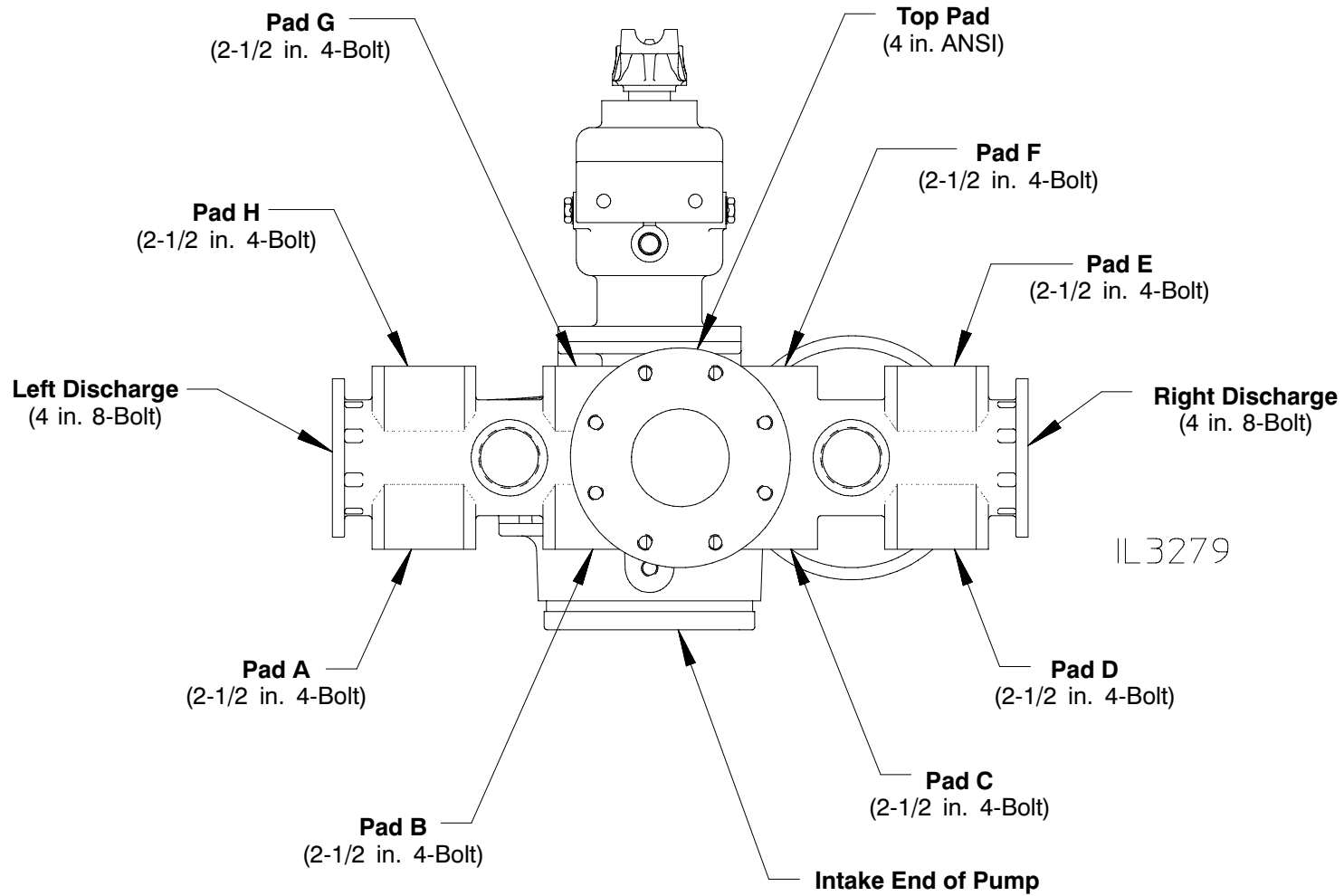
Note: Left and Right are Defined as Viewed From the Output Shaft Side of the Transmission.

**S100 Series, CCW Impeller Rotation**  
**Manifold with 4 in. End Flanges - Perpendicular to Intake**



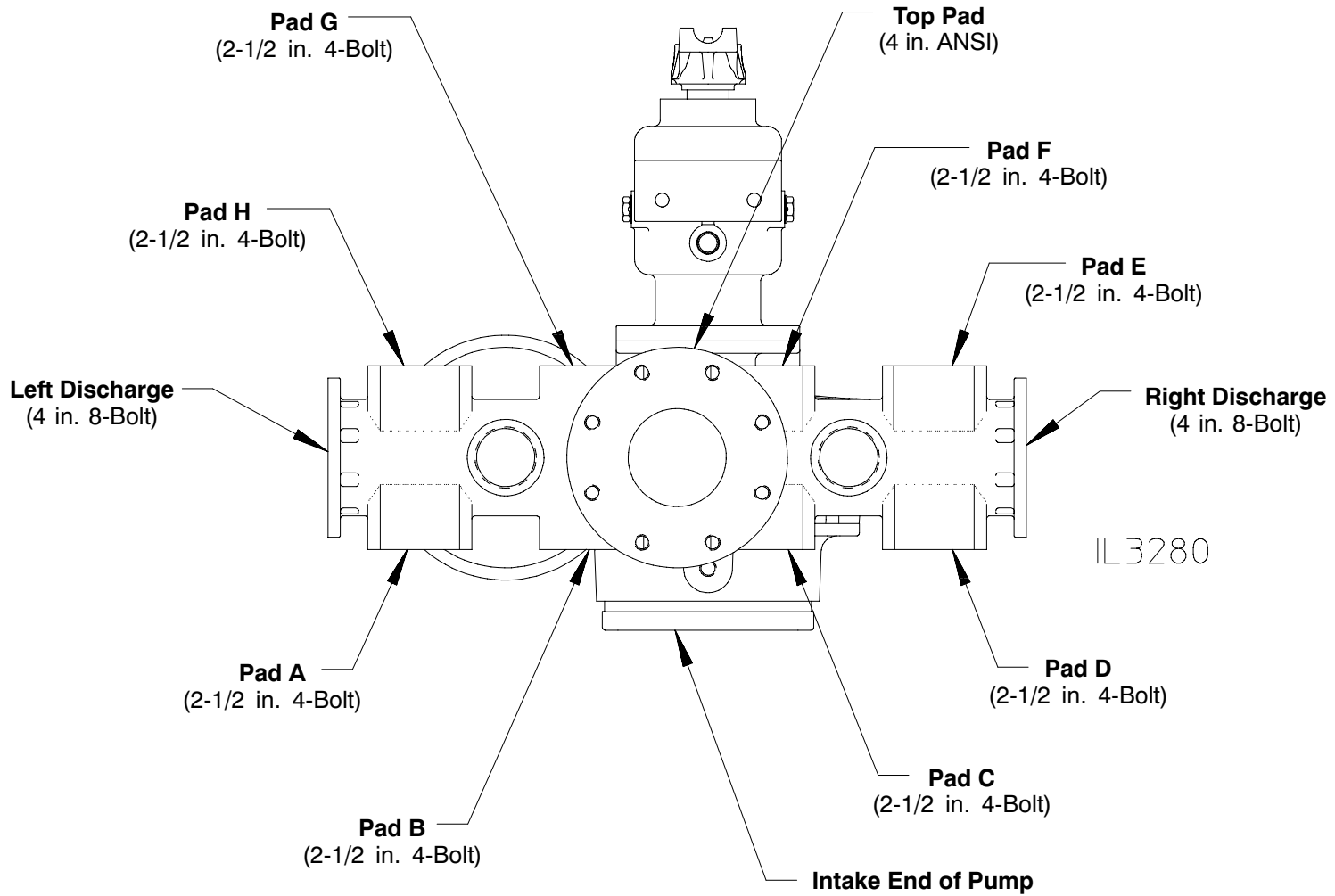
**Note: Left and Right are Defined as Viewed From the Output Shaft Side of the Transmission.**

S100D, CCW Impeller Rotation  
Manifold with 4 in. End Flanges - Perpendicular to Intake



**Note: Left and Right are Defined as Viewed From the Intake End of Pump.**

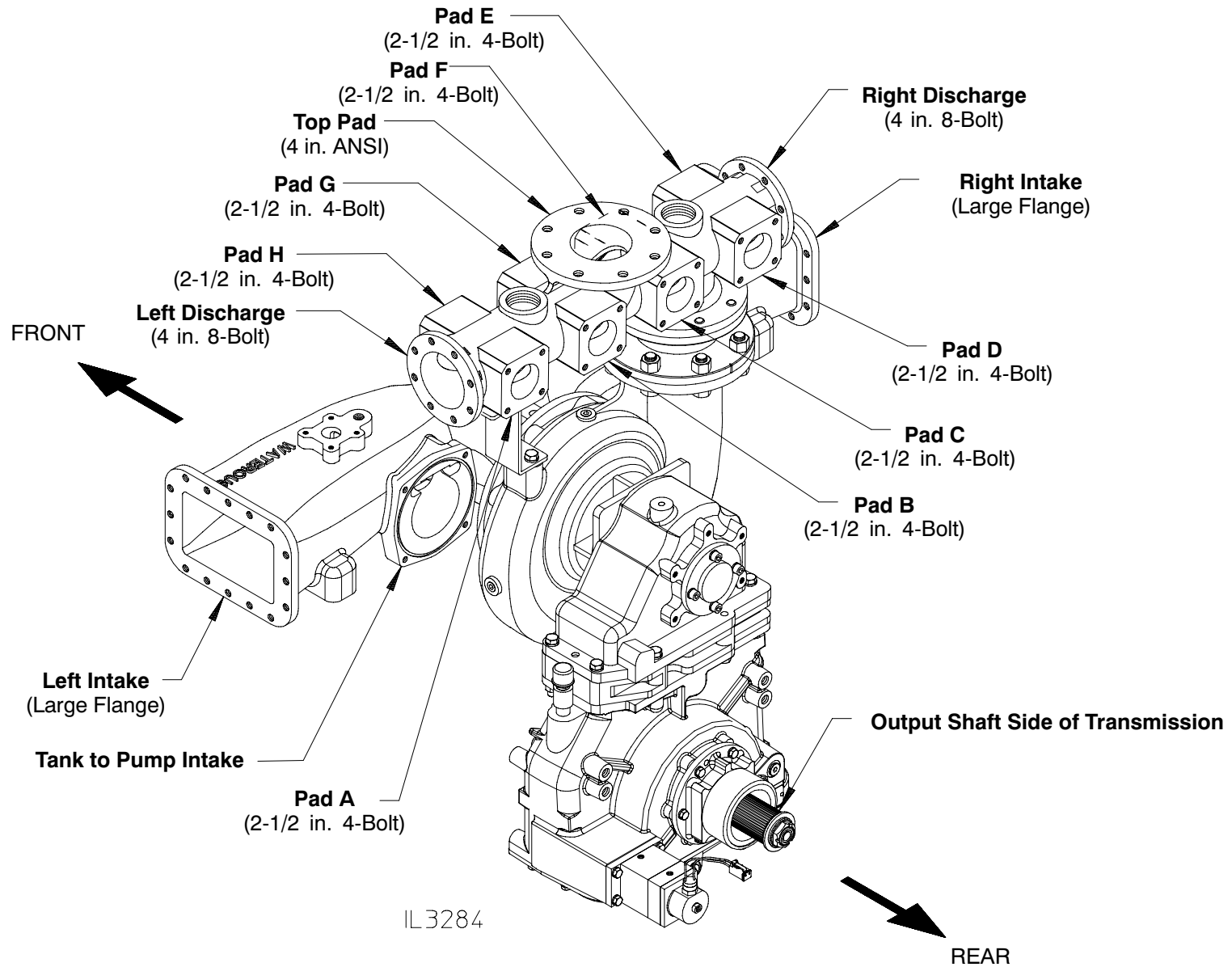
**S100D, CW Impeller Rotation**  
Manifold with 4 in. End Flanges - Perpendicular to Intake



**Note: Left and Right are Defined as Viewed From the Intake End of Pump.**

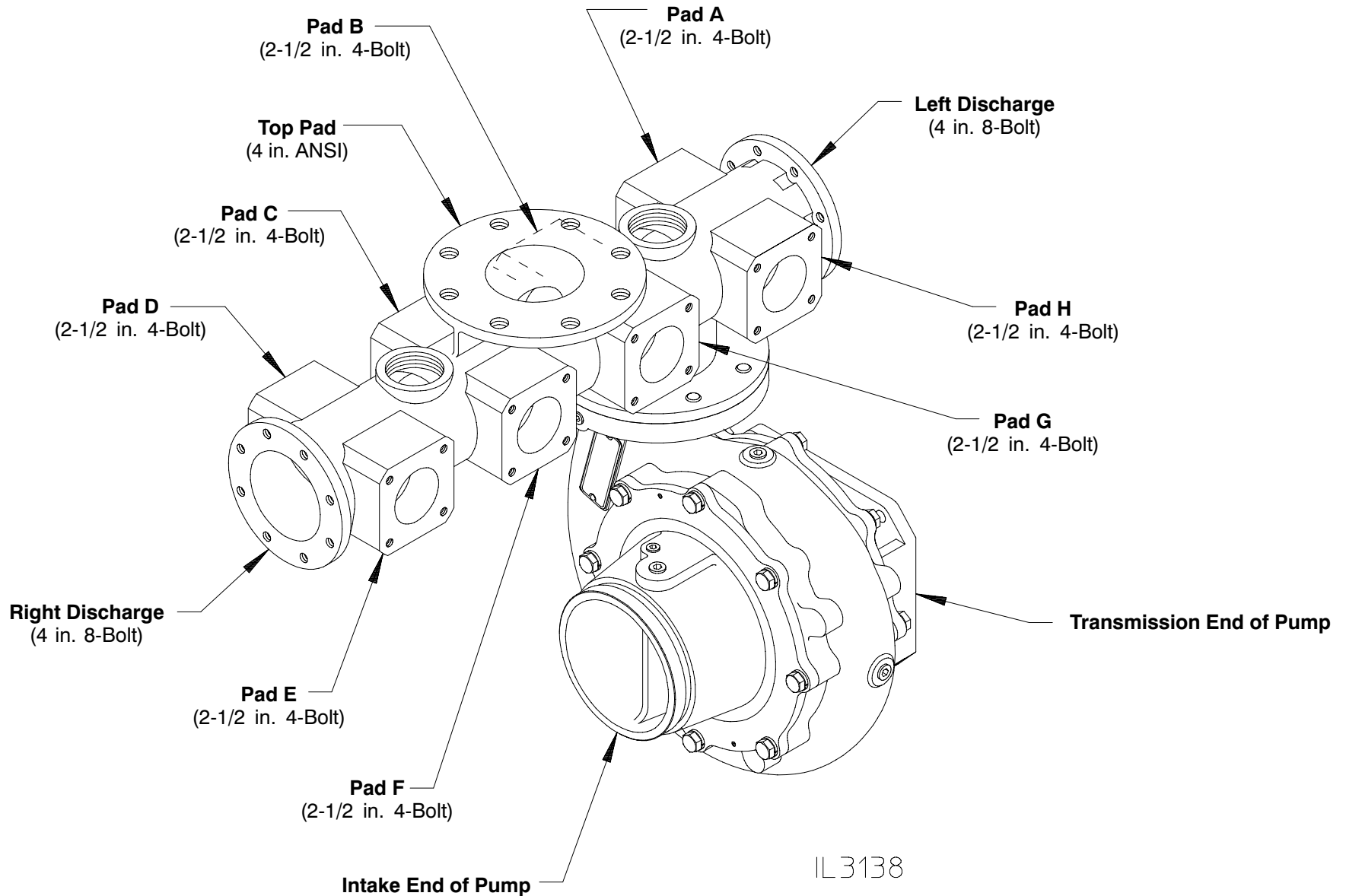


# S101, CW Impeller Rotation



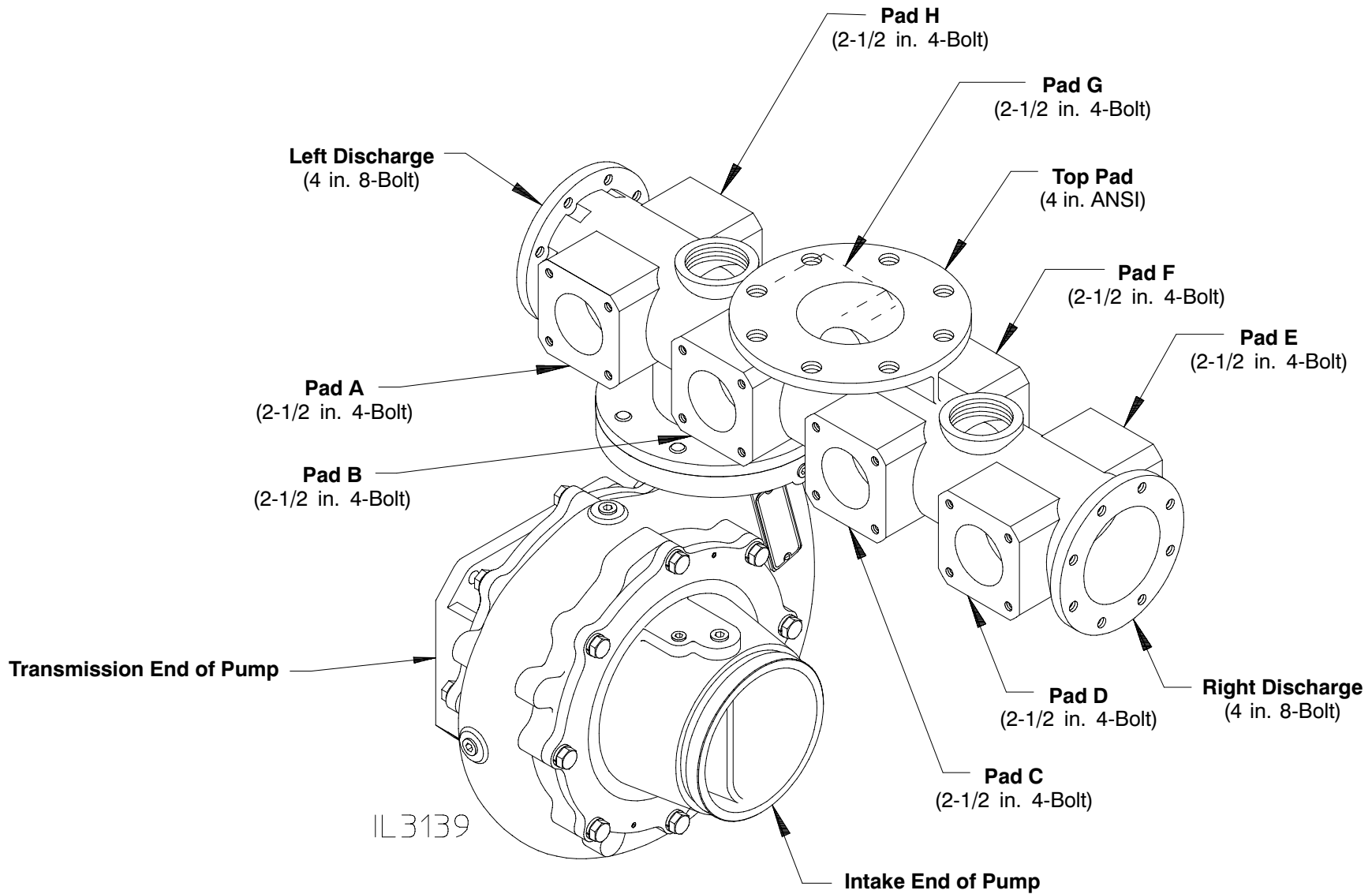
**Note: Left and Right are Defined as Viewed From the Output Shaft Side of the Transmission.**

**CX Series, CW Impeller Rotation  
Manifold with 4 in. End Flanges - Parallel to Intake**



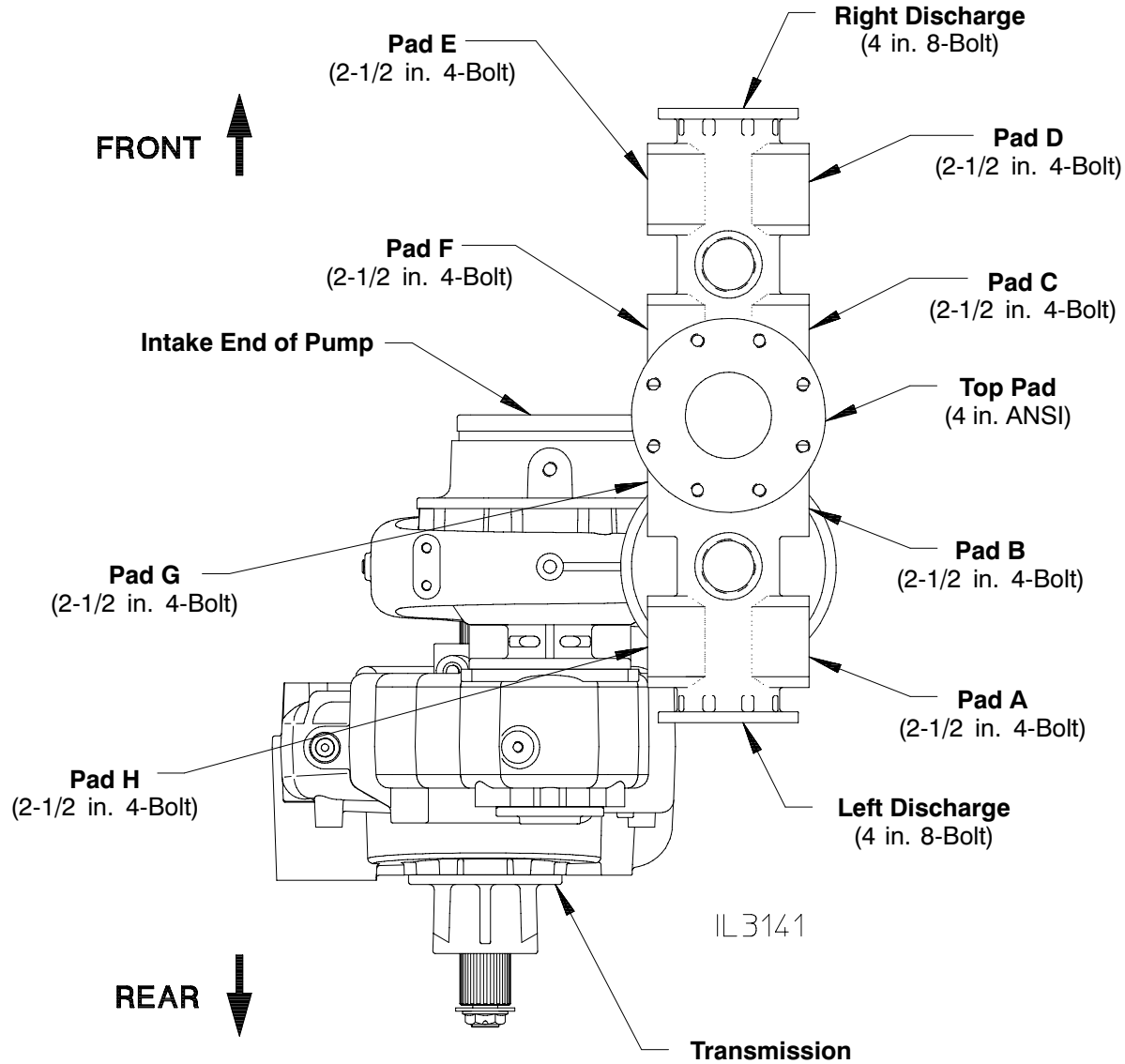
**Note: Left and Right are Defined as Viewed From the Side of the Pump with the Transmission on Your Left and the Intake on Your Right.**

**CX Series, CCW Impeller Rotation**  
**Manifold with 4 in. End Flanges - Parallel to Intake**



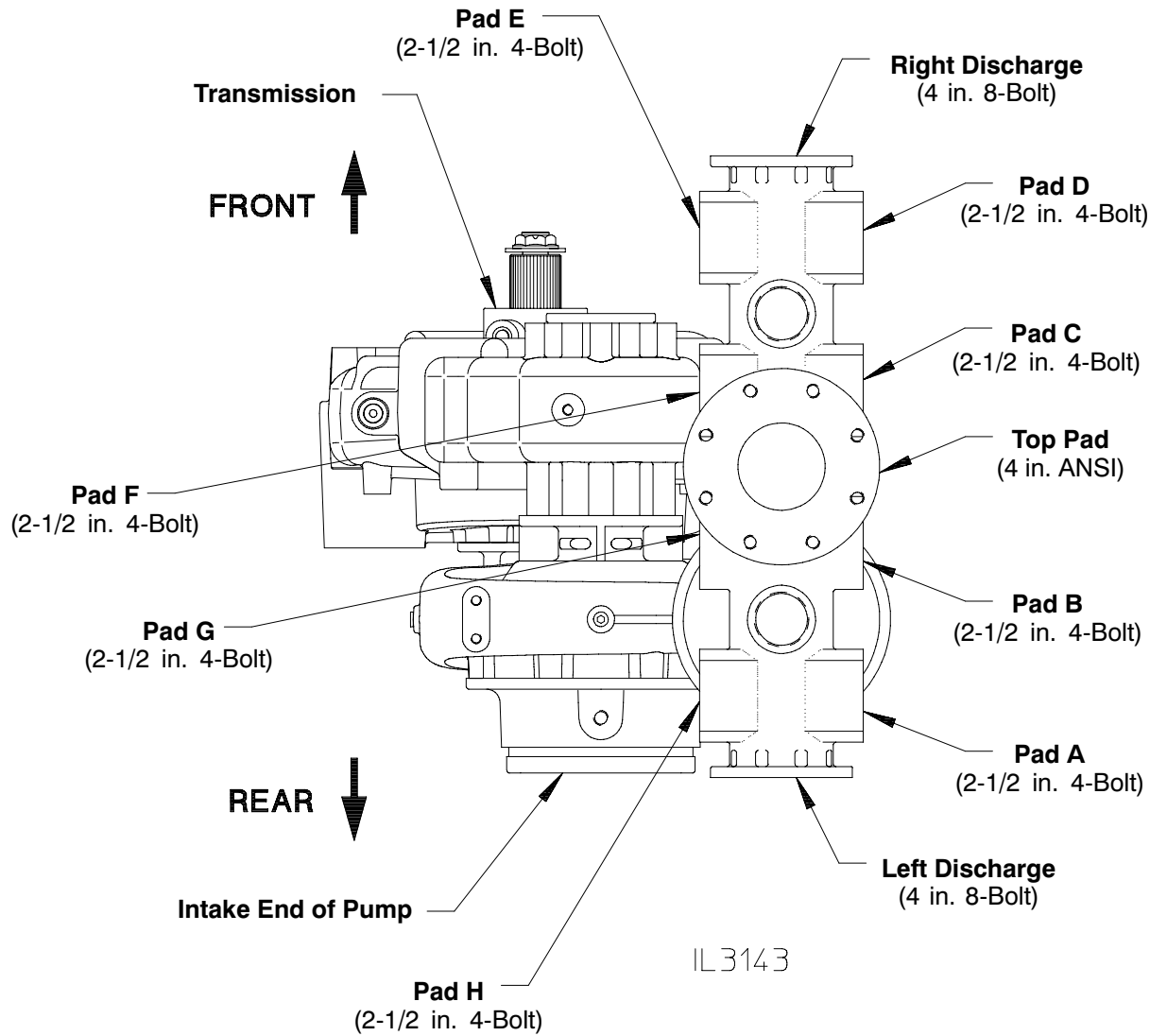
**Note: Left and Right are Defined as Viewed From the Side of the Pump with the Transmission on Your Left and the Intake on Your Right.**

**S100 Series, CW Impeller Rotation  
Manifold with 4 in. End Flanges - Parallel to Intake**



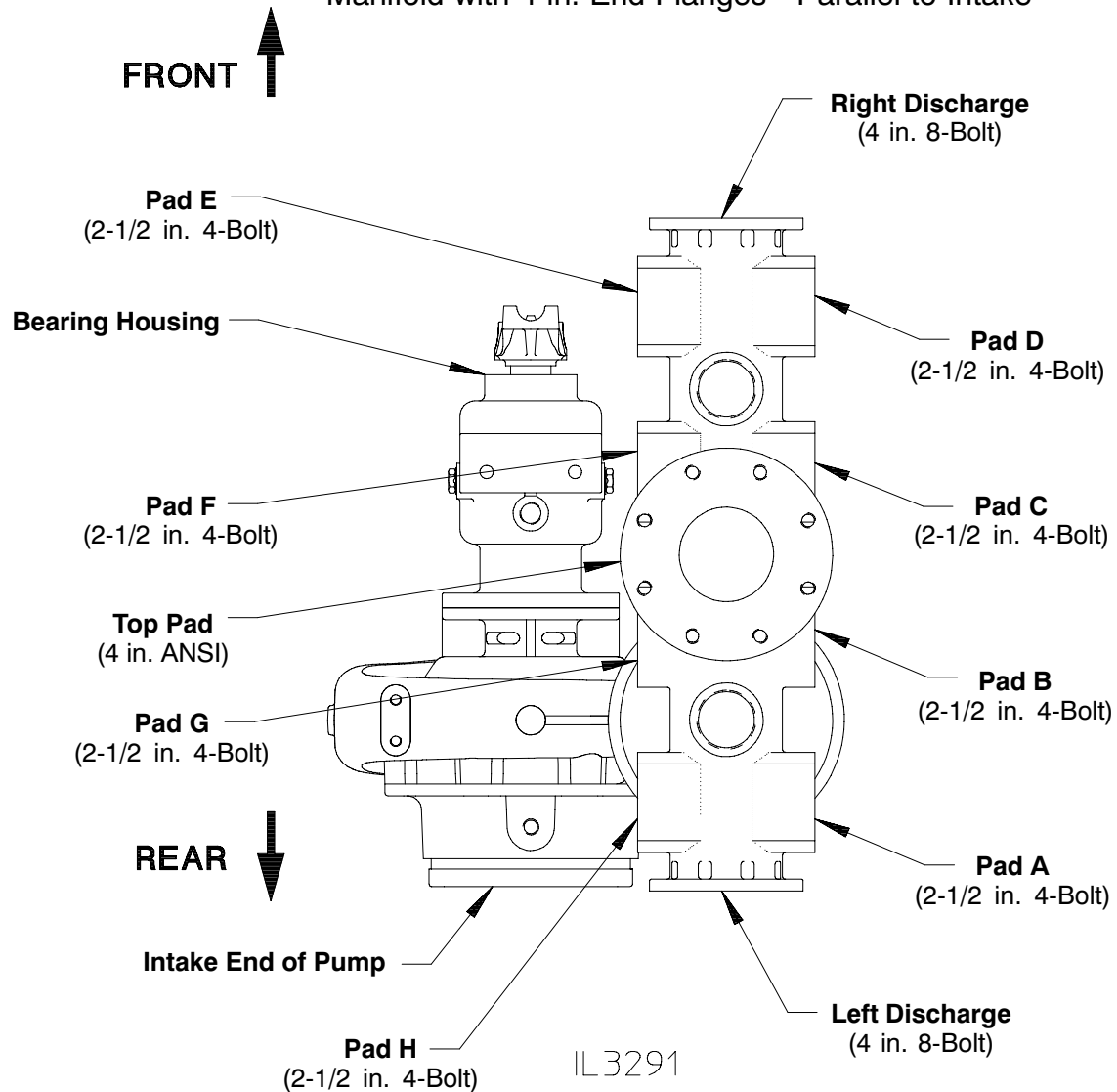
**Note: Left and Right are Defined as Viewed From the Side of the Pump with the Transmission on Your Left and the Intake on Your Right.**

**S100 Series, CCW Impeller Rotation  
Manifold with 4 in. End Flanges - Parallel to Intake**



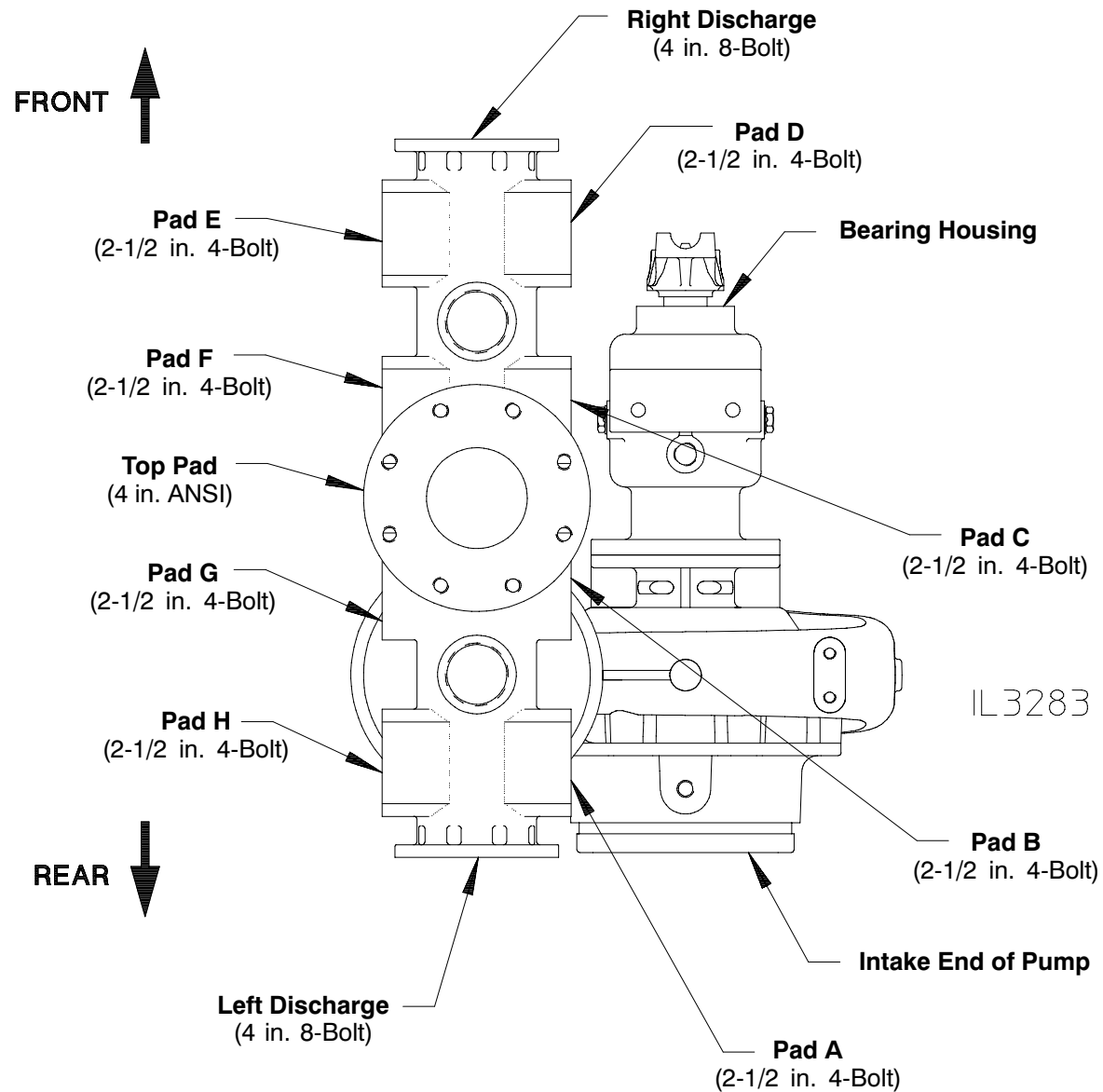
**Note: Left and Right are Defined as Viewed From the Side of the Pump with the Intake on Your Left and the Transmission on Your Right.**

S100D, CCW Impeller Rotation  
Manifold with 4 in. End Flanges - Parallel to Intake



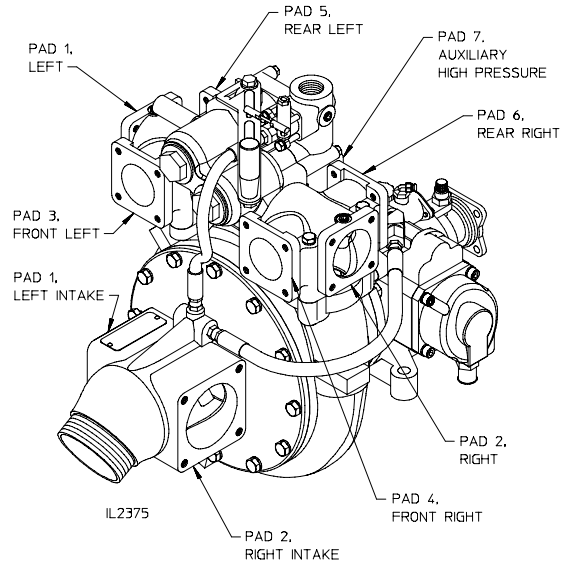
**Note: Left and Right are Defined as Viewed From the Side of the Pump with the Intake on Your Left and the Bearing Housing on Your Right.**

**S100D, CW Impeller Rotation  
Manifold with 4 in. End Flanges - Parallel to Intake**



**Note: Left and Right are Defined as Viewed From the Side of the Pump with the Intake on Your Left and the Bearing Housing on Your Right.**

# HL200, HL300



## Intake Adapter and Discharge Manifold Pads

**Note: Left and Right are Defined as Viewed From Intake End of the Pump.**

