

S100 Series Fire Pump Dimensional Drawings

With Victualic[®] Intake Fitting

Basic Pump Dimensions (Without Transmission)		
Feature		See Page
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Optional Discharge Fittings	Blank (5 in. ANSI Flange) Dimensions	4
	4 in. ANSI Flanged Adapter Dimensions	5
	Manifold Dimensions	6

Pump and Transmission - See Page 2

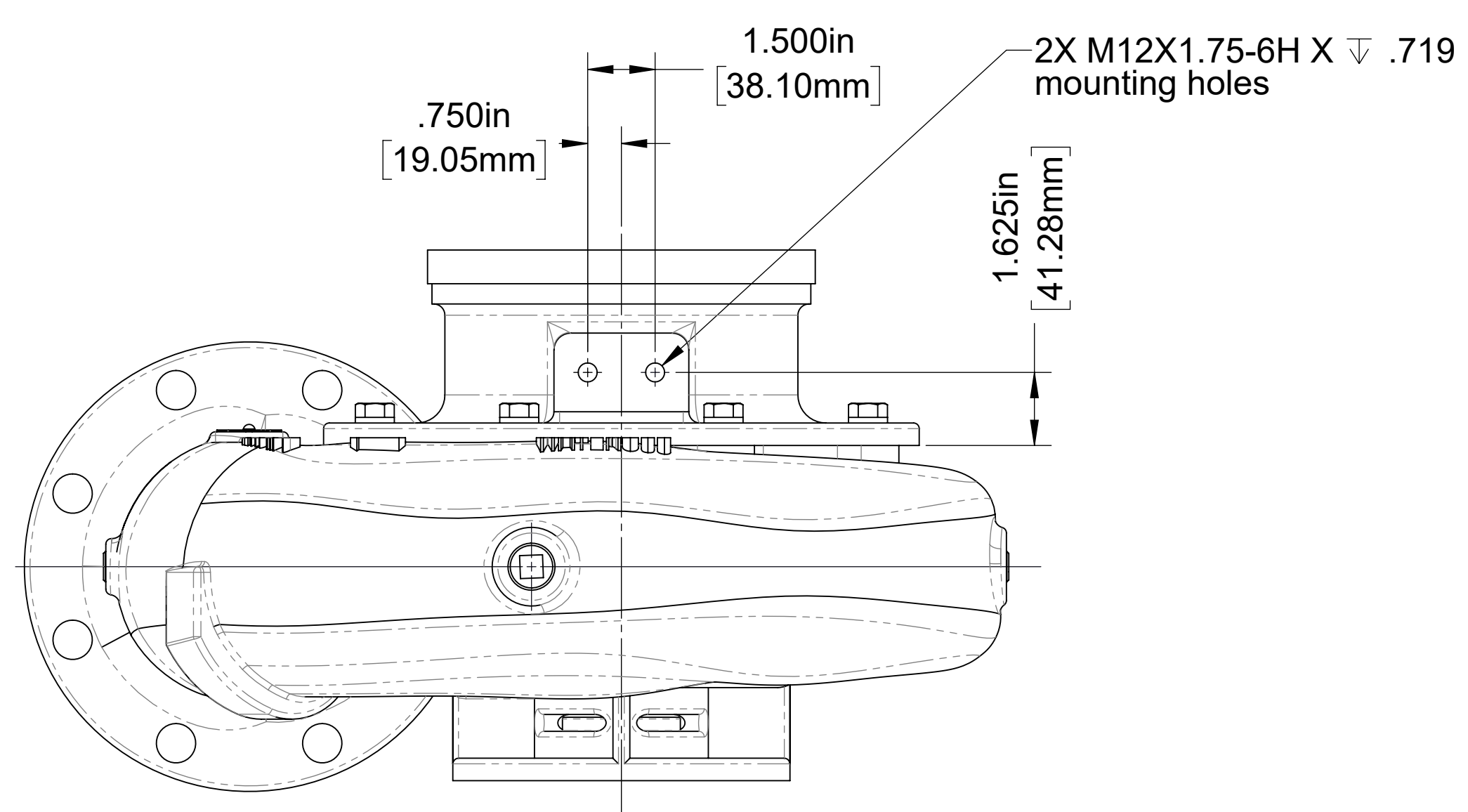
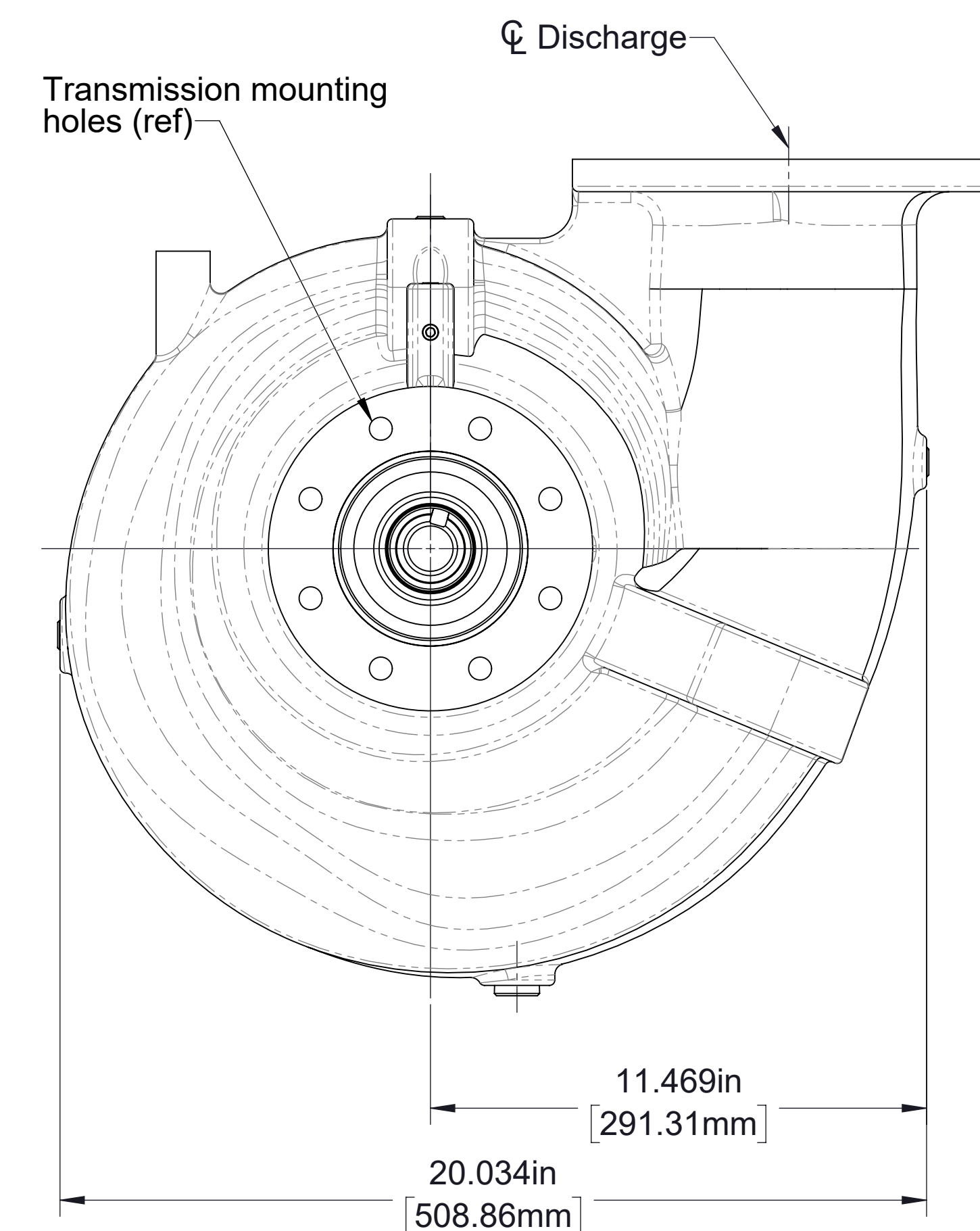
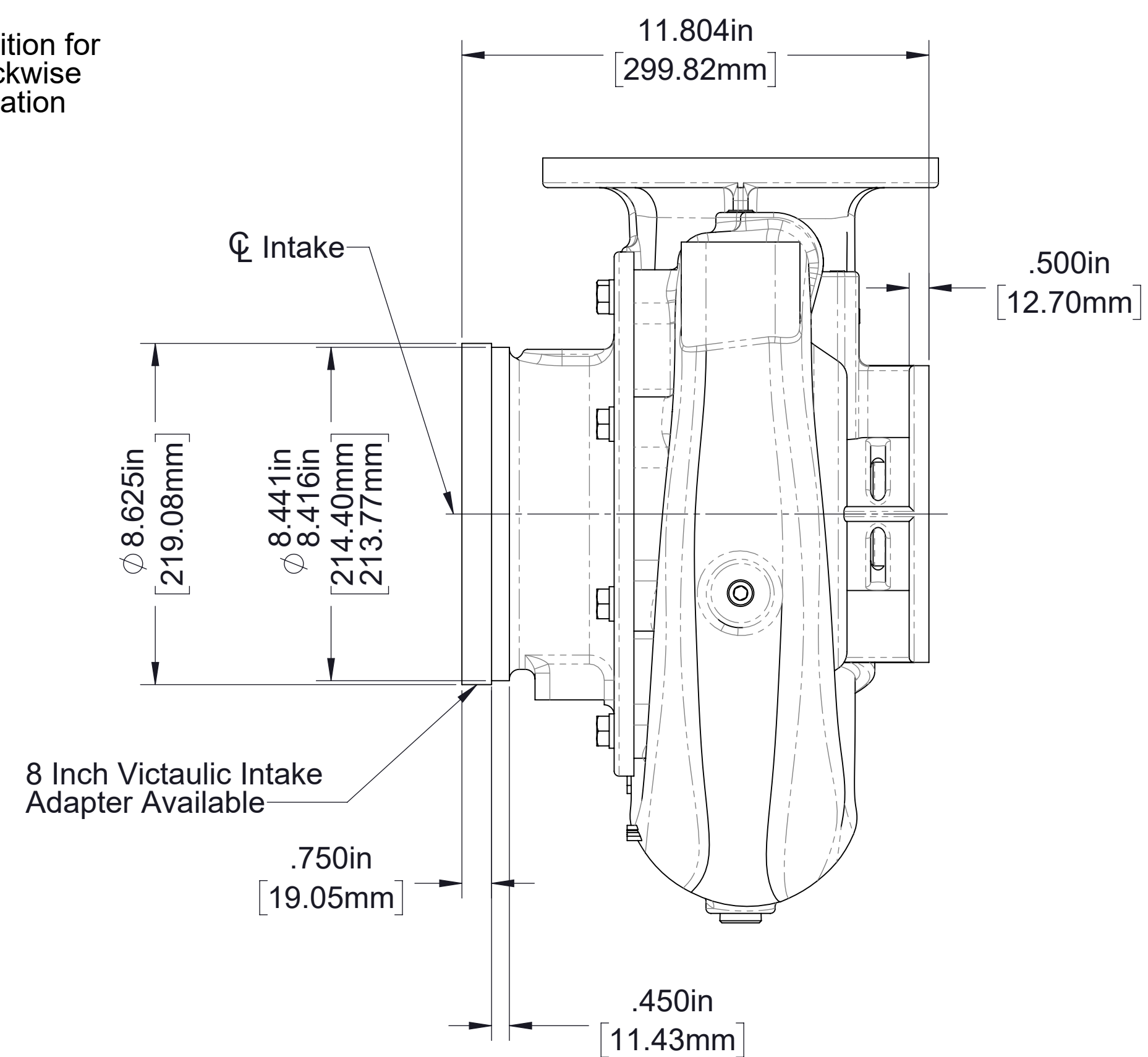
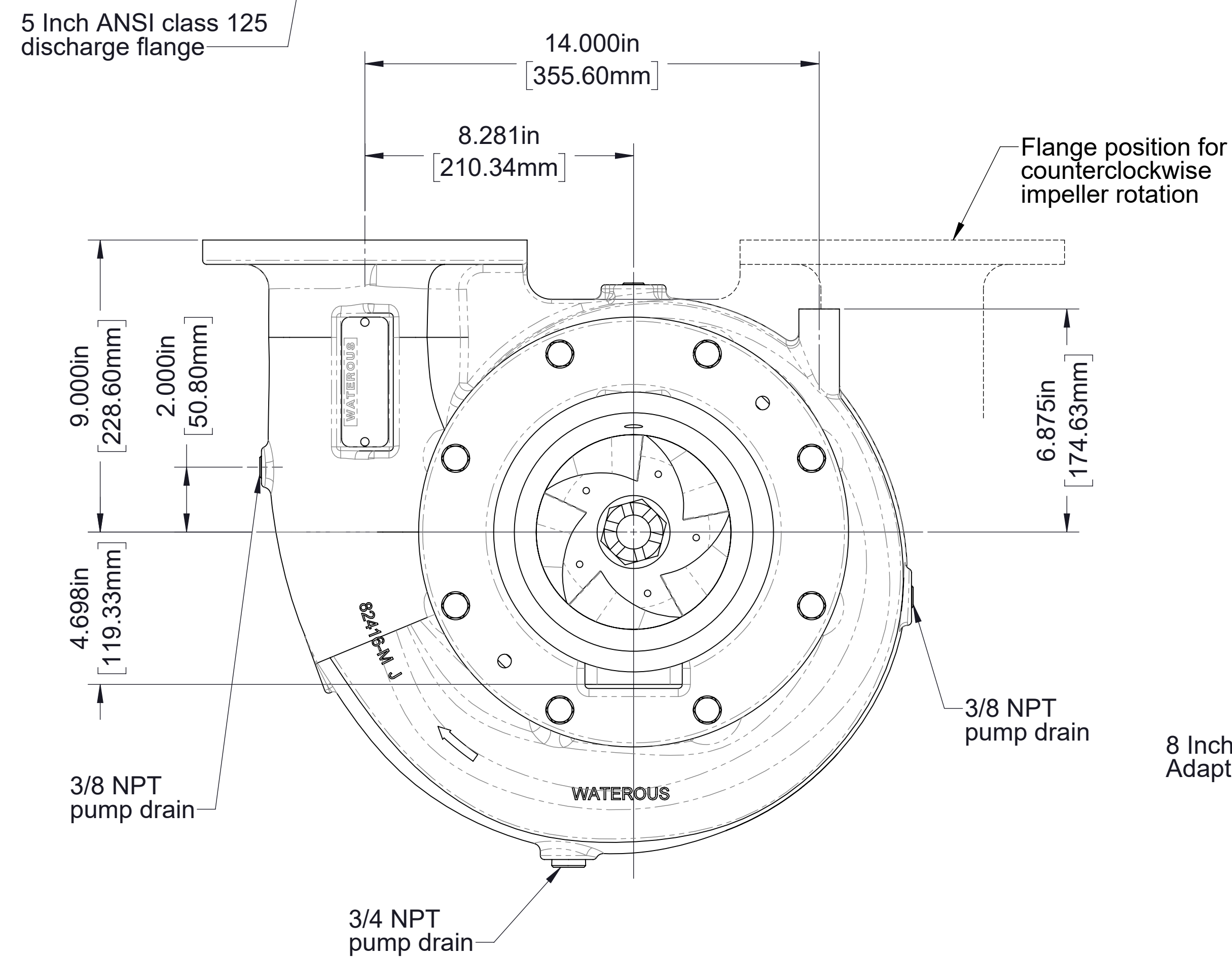
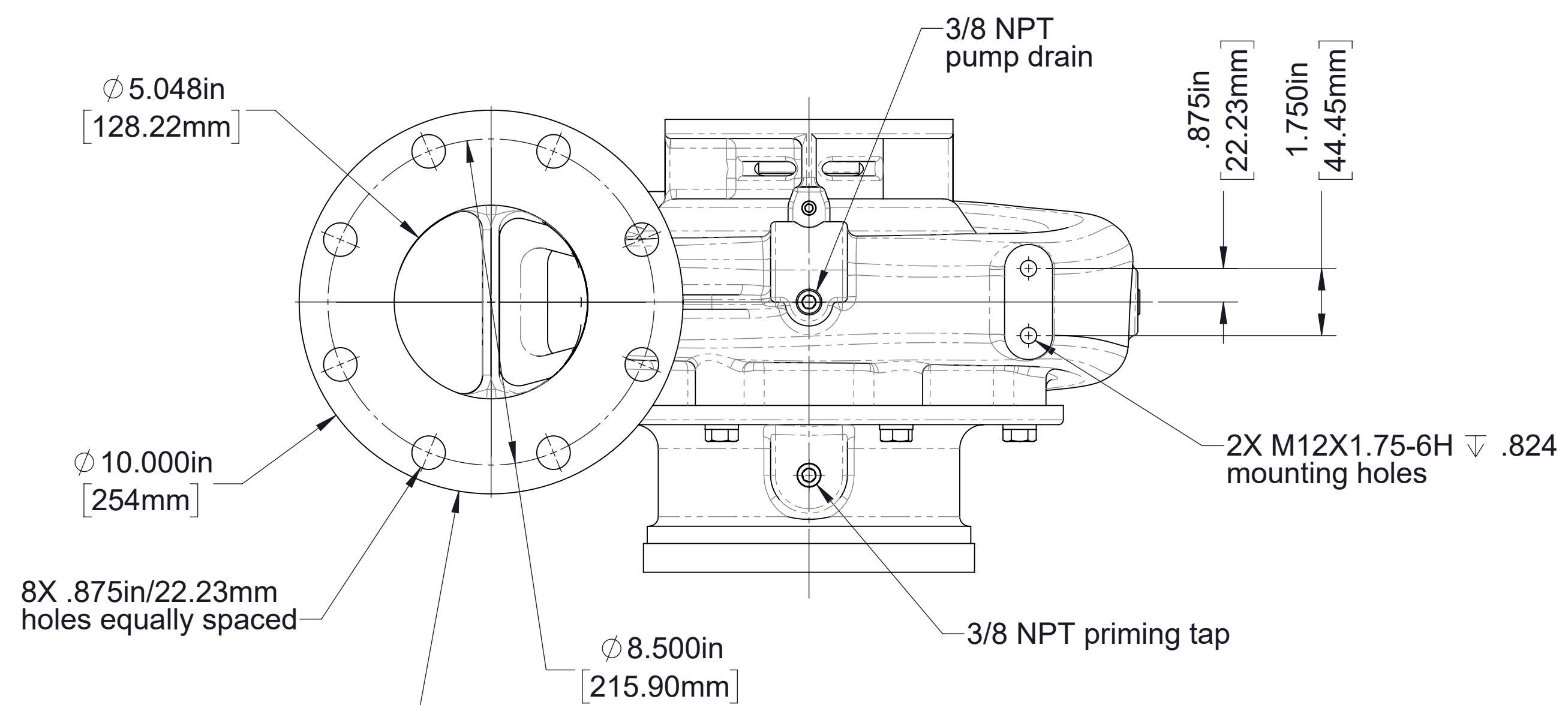
Note: Pump must be installed in accordance with Waterous installation instructions.

S100 Series Fire Pump Dimensional Drawings With Victualic® Intake Fitting

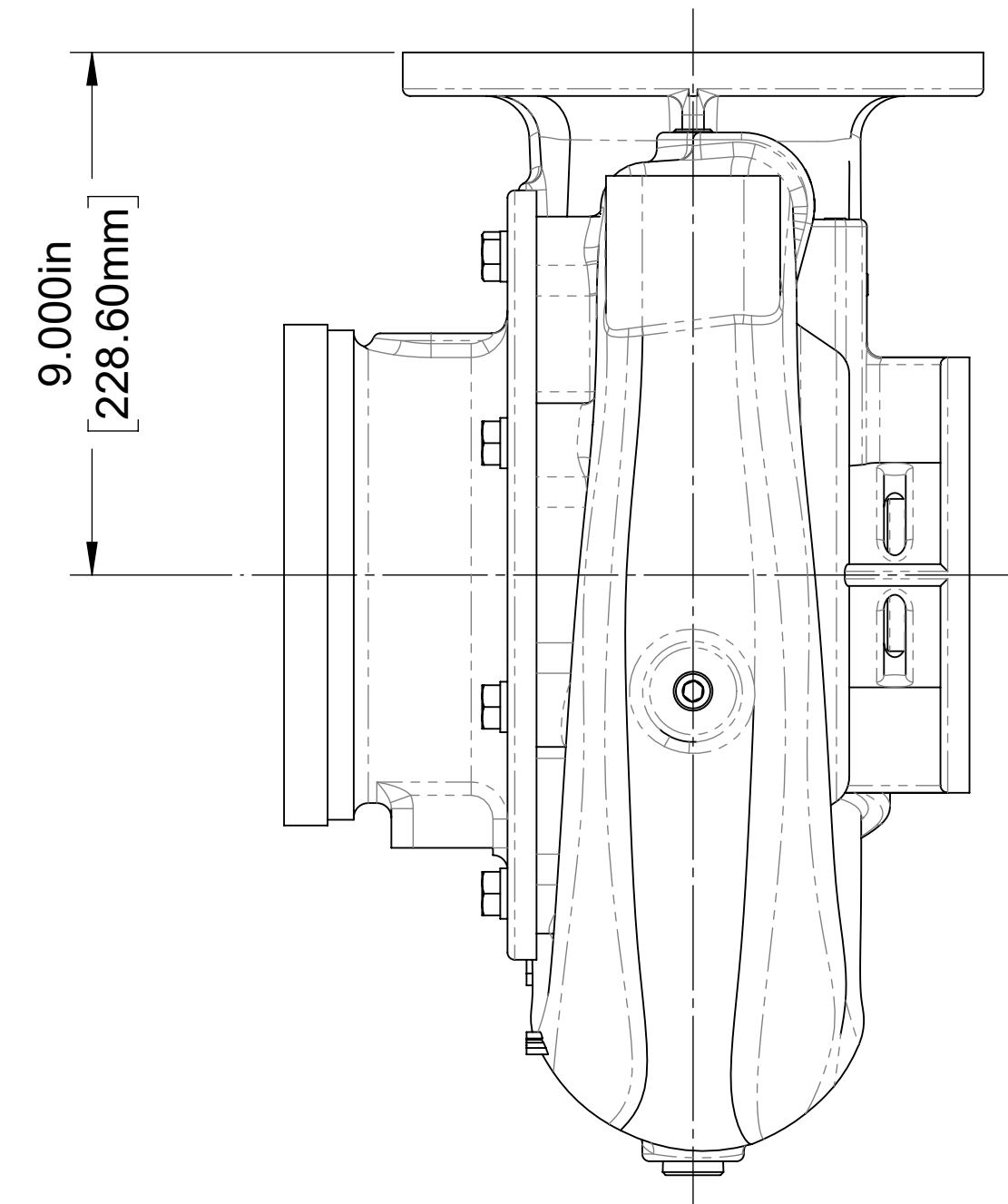
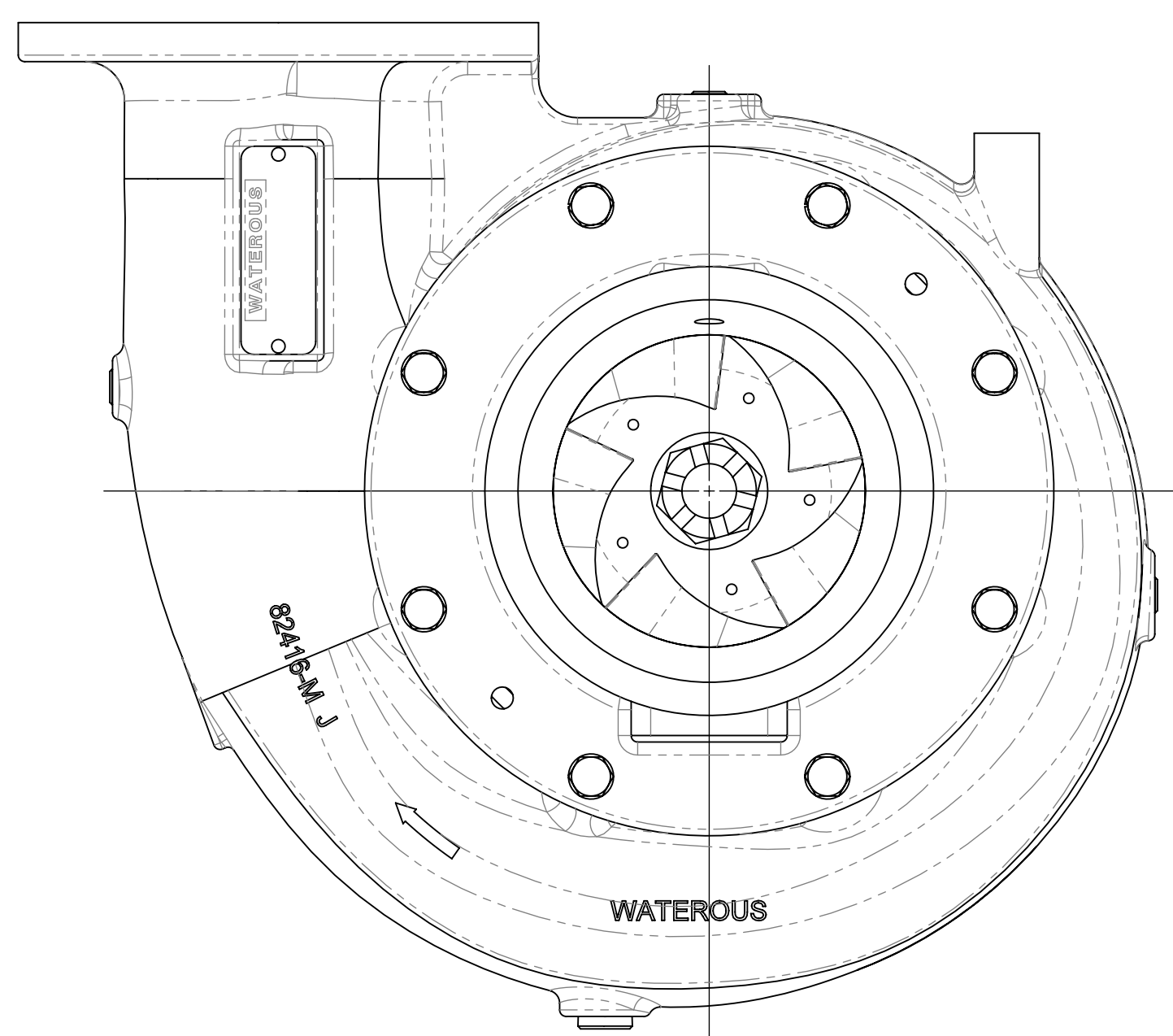
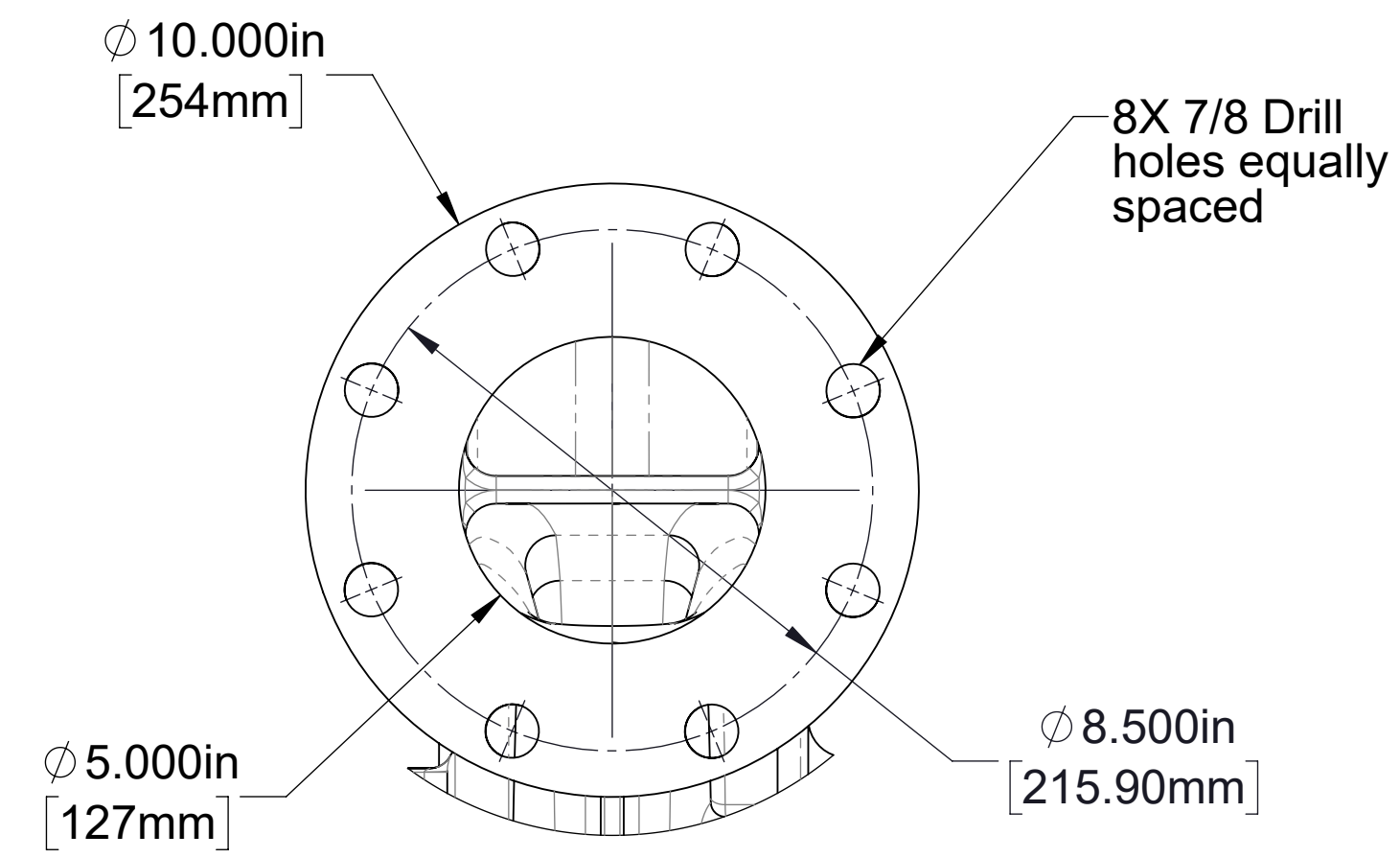
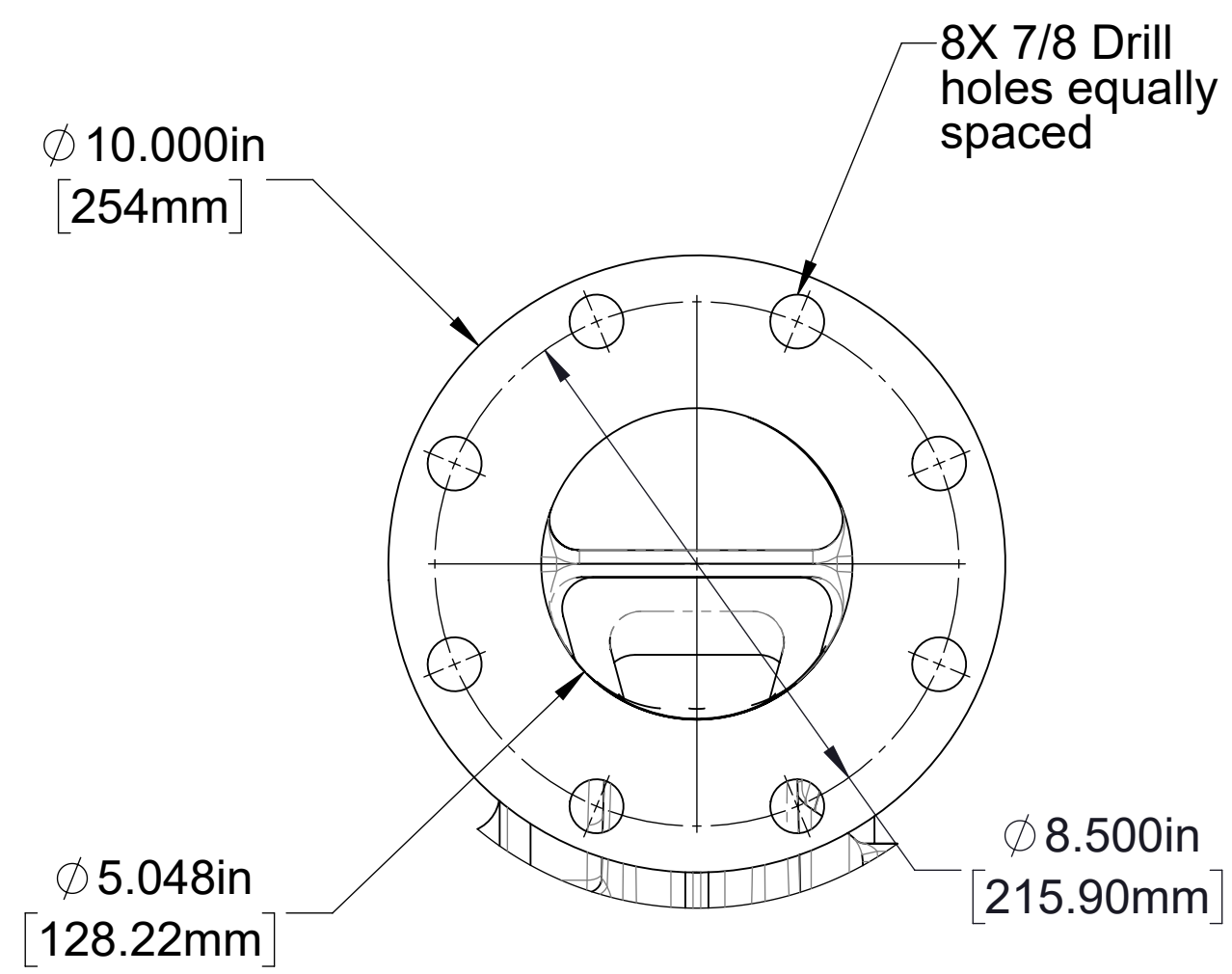
Pump and Transmission											
Drive				Impeller Rotation (2)	Pump Model	See Page					
Type	Driveline Type	Input Rotation (1)	Pump Body Mounting on Transmission			Hydraulic Pump Mounting Provision		Available Pump Discharge Positions and Ordering Info	Optional Discharge Fitting Mounting on Pump		4 in. ANSI Flanged Adapter
						No	Yes		Perpendicular to Intake	Parallel to Intake	
C20 Series Split Shaft Chain Drive Transmission	Input and Output Shaft	CW	Front (Input Shaft Side)	CW	S100C20C S100C20D S100C20E S100C20F	7	8	9	29	35	5
			Rear (Output Shaft Side)	CCW	S100C20C S100C20D S100C20E S100C20F	10	11	12	30	36	
	Input Shaft Only	CW	Front (Input Shaft Side)	CW	S100C20C S100C20D S100C20E S100C20F	13	14	15	29	35	
			Rear (Opposite Input Shaft Side)	CCW	S100C20C S100C20D S100C20E S100C20F	16	17	18	30	36	
Direct Drive Connection from P.T.O.	1410 Series End Yoke	CW	Opposite Input Shaft	CCW	S100D	19	N/A	20	31	37	
		CCW	Opposite Input Shaft	CW	S100D	21	N/A	22	32	38	
PA Series PTO Driven, Chain Driven Transmission	Input Shaft Only	CW	Input Shaft Side	CW	S100PA	23	N/A	24	33	39	
QC Series PTO Driven, Chain Drive Transmission (Direct Engine Mount)	Input Shaft Only	CW	Rear (Output Shaft Side) Vertical Transmission	CW	S100QC	25	N/A	26	34	40	
			Rear (Output Shaft Side) Inverted Transmission Case	CW		27	N/A	28	See Note 3		

Notes:

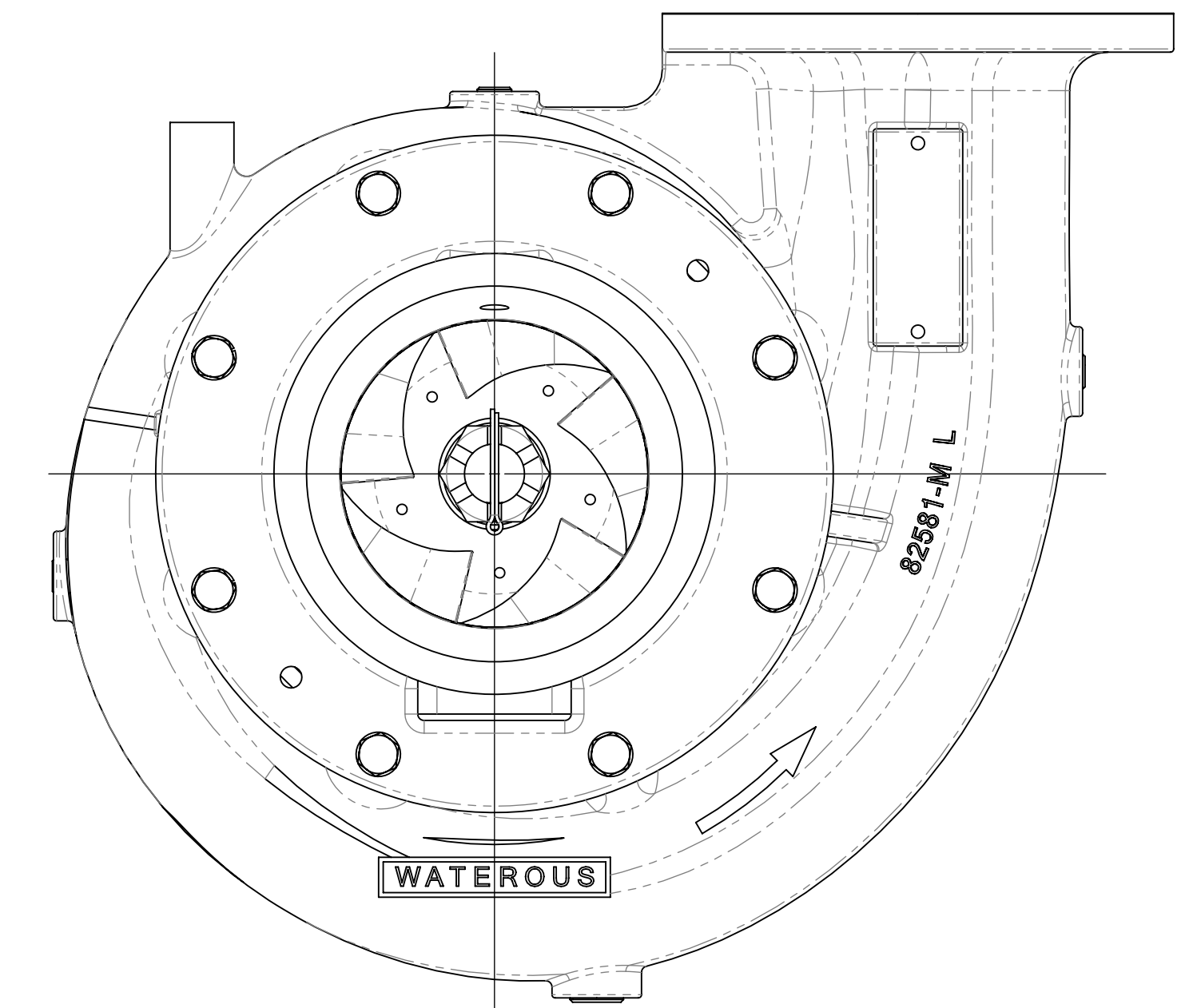
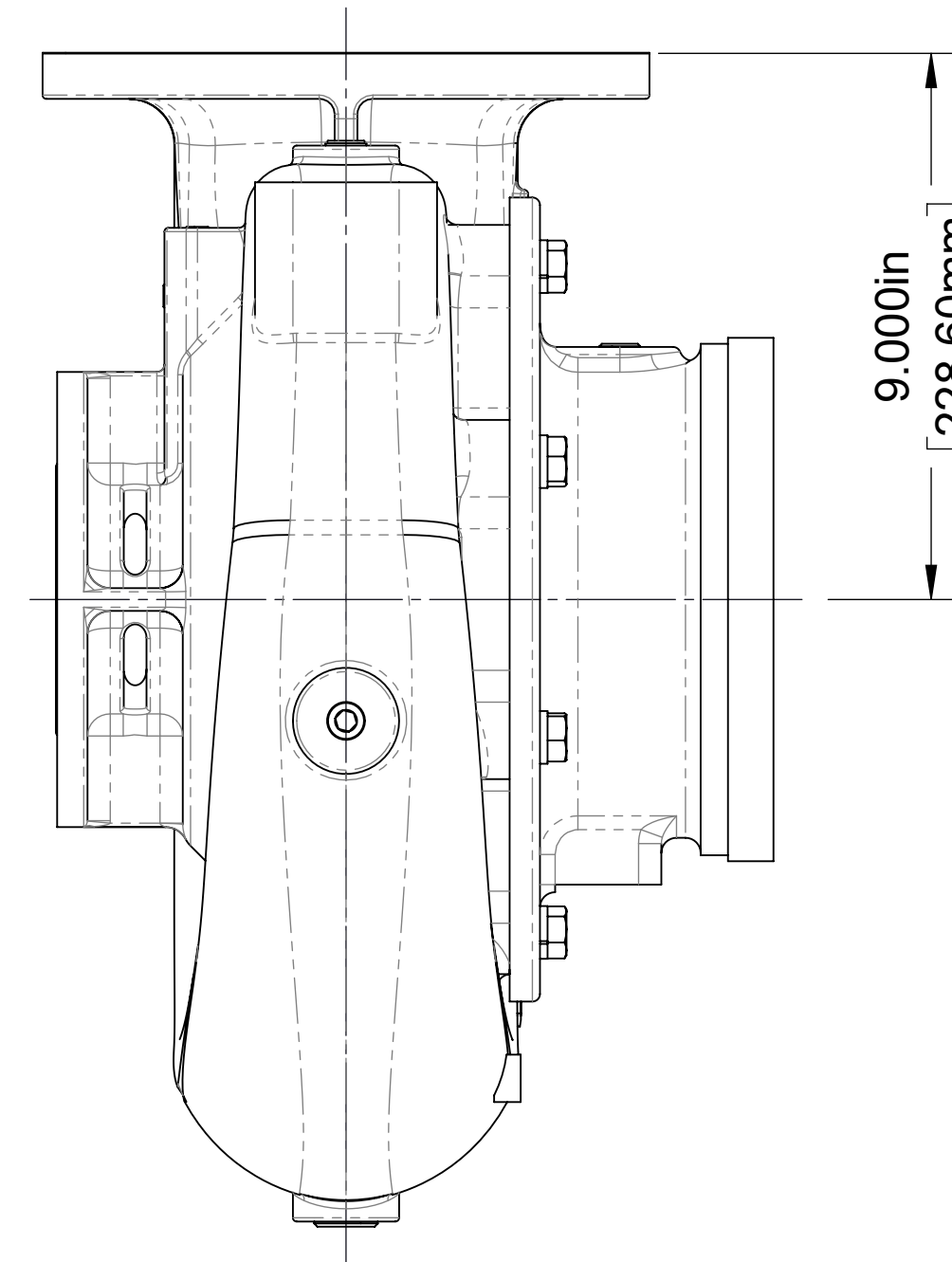
1. Input rotation is viewed looking directly at the transmission input shaft or direct drive end yoke.
2. Impeller rotation is viewed looking directly at the intake fitting (impeller eye).
3. Discharge manifold only available with direct engine mounted QC when case is vertical. Inverted case interferes with manifold.



S100 Body and Intake Dimensions
 Clockwise impeller rotation shown

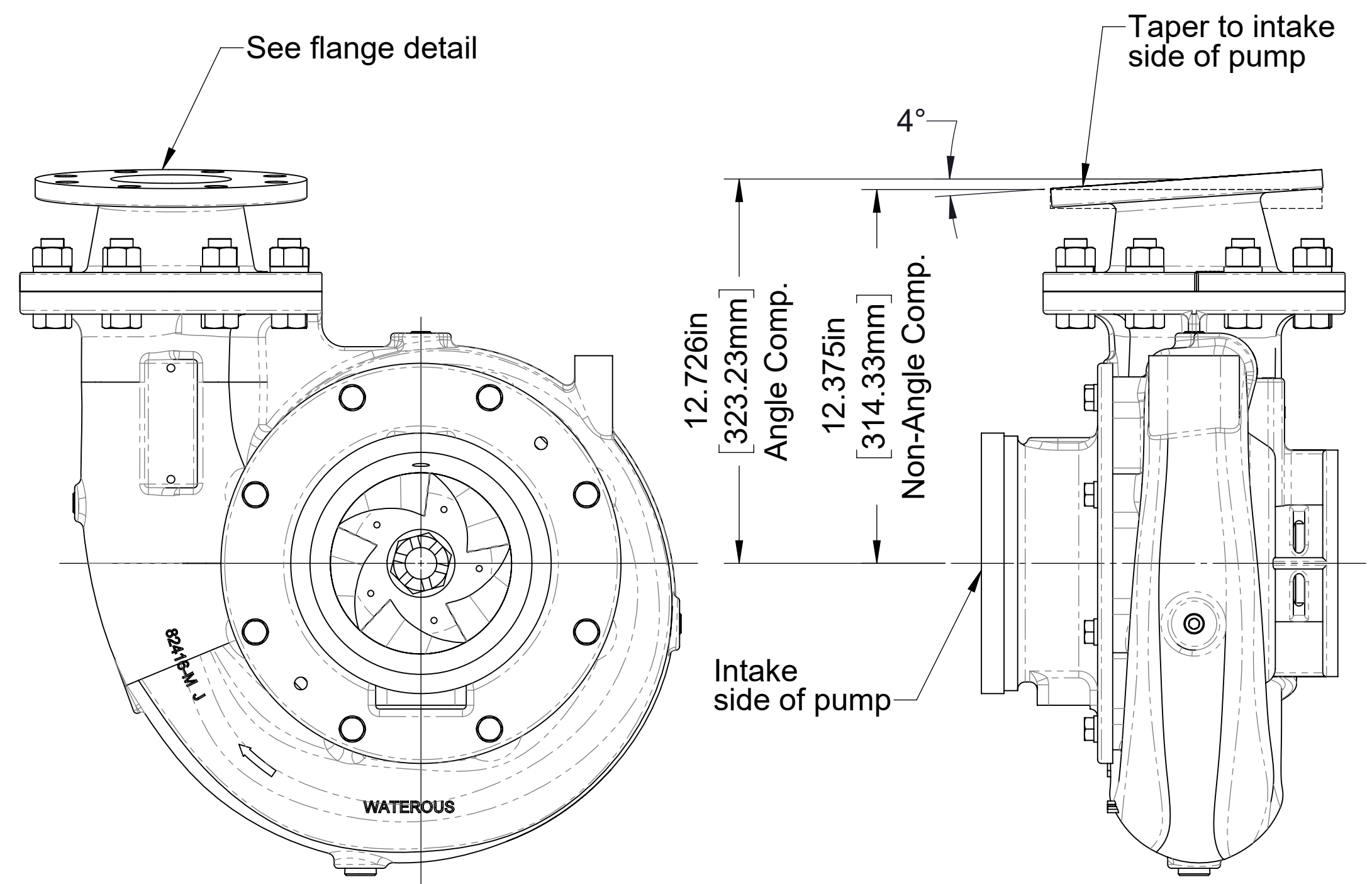


CW Impeller Rotation

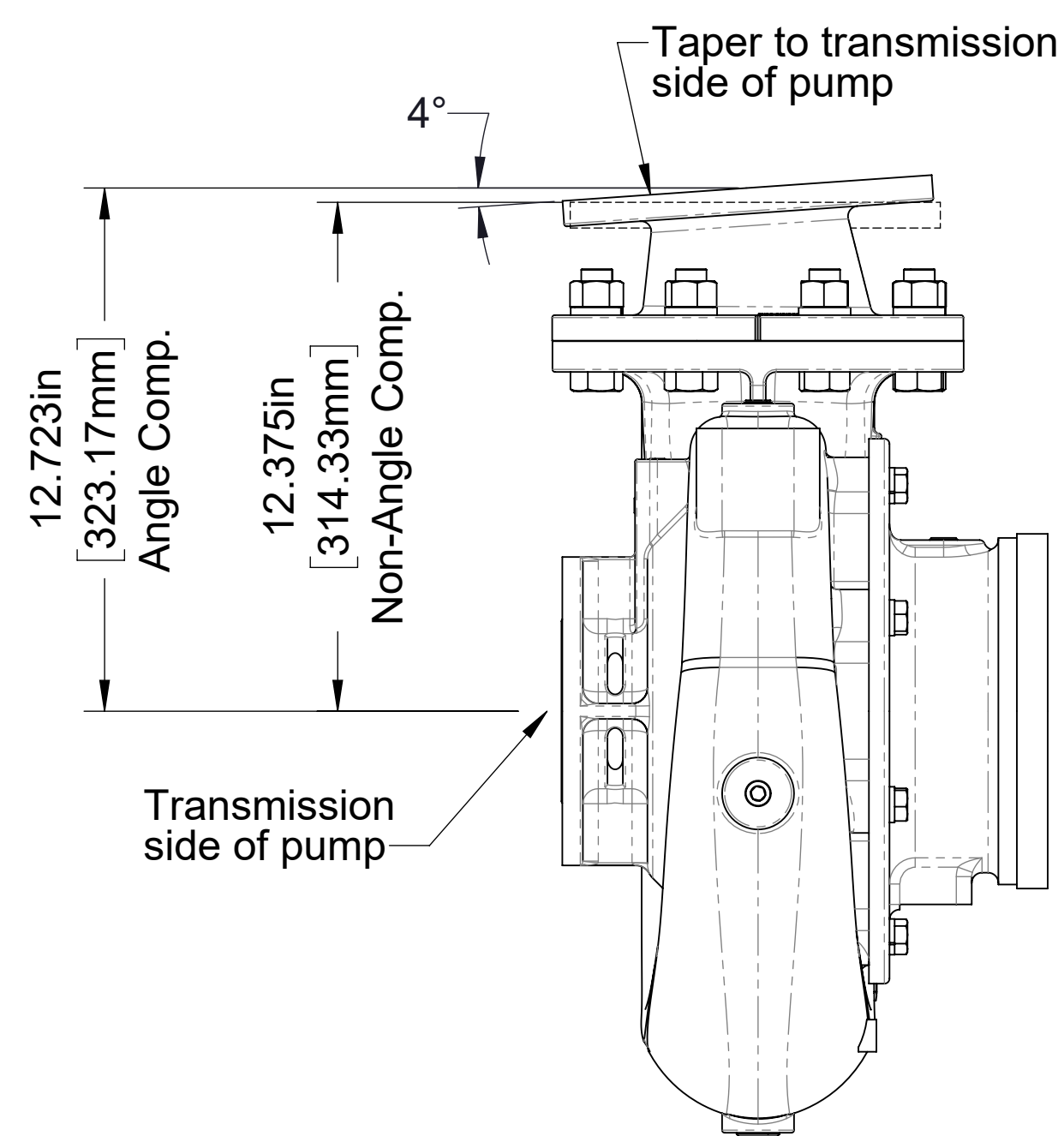


CCW Impeller Rotation

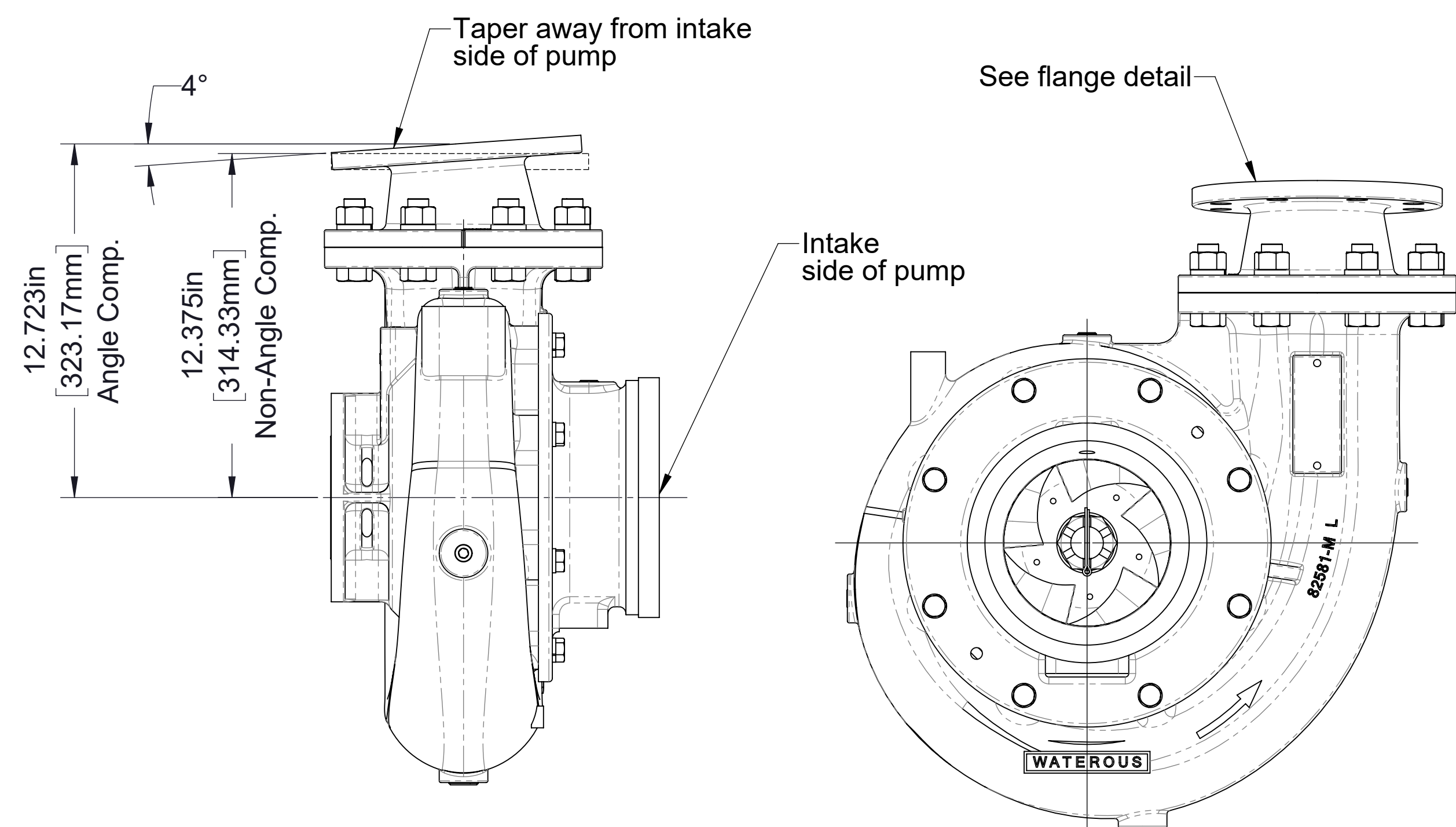
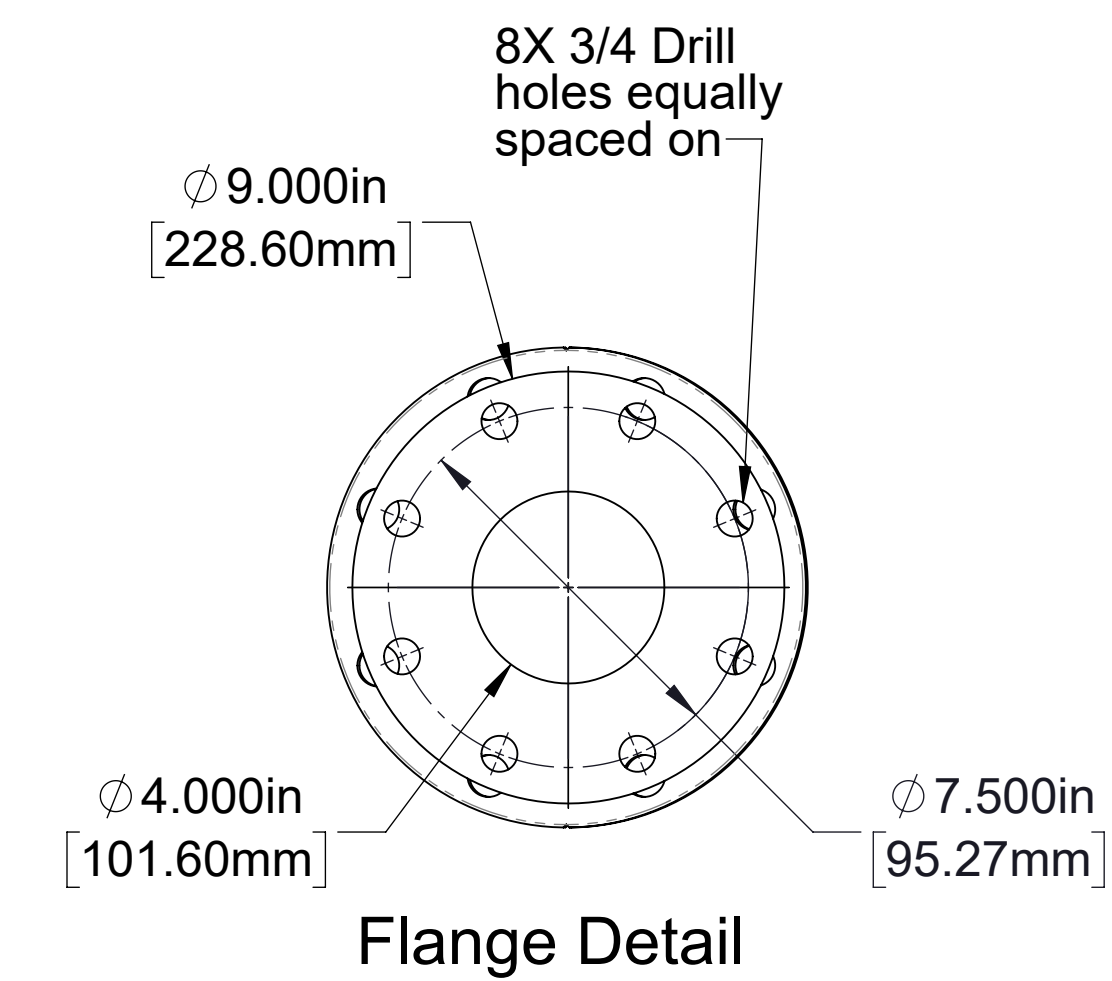
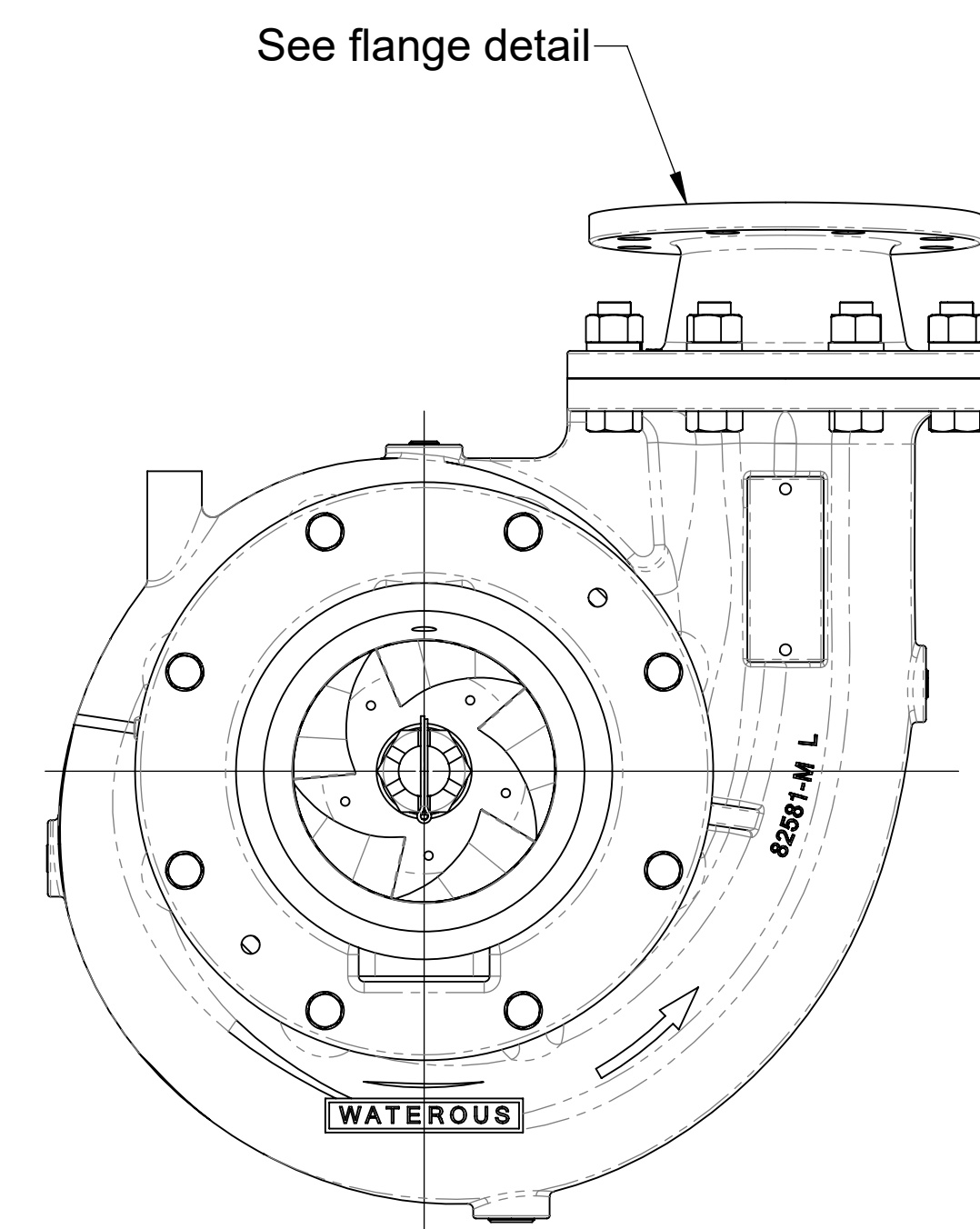
S100 Optional Blank Discharge (5 in. ANSI Flange)



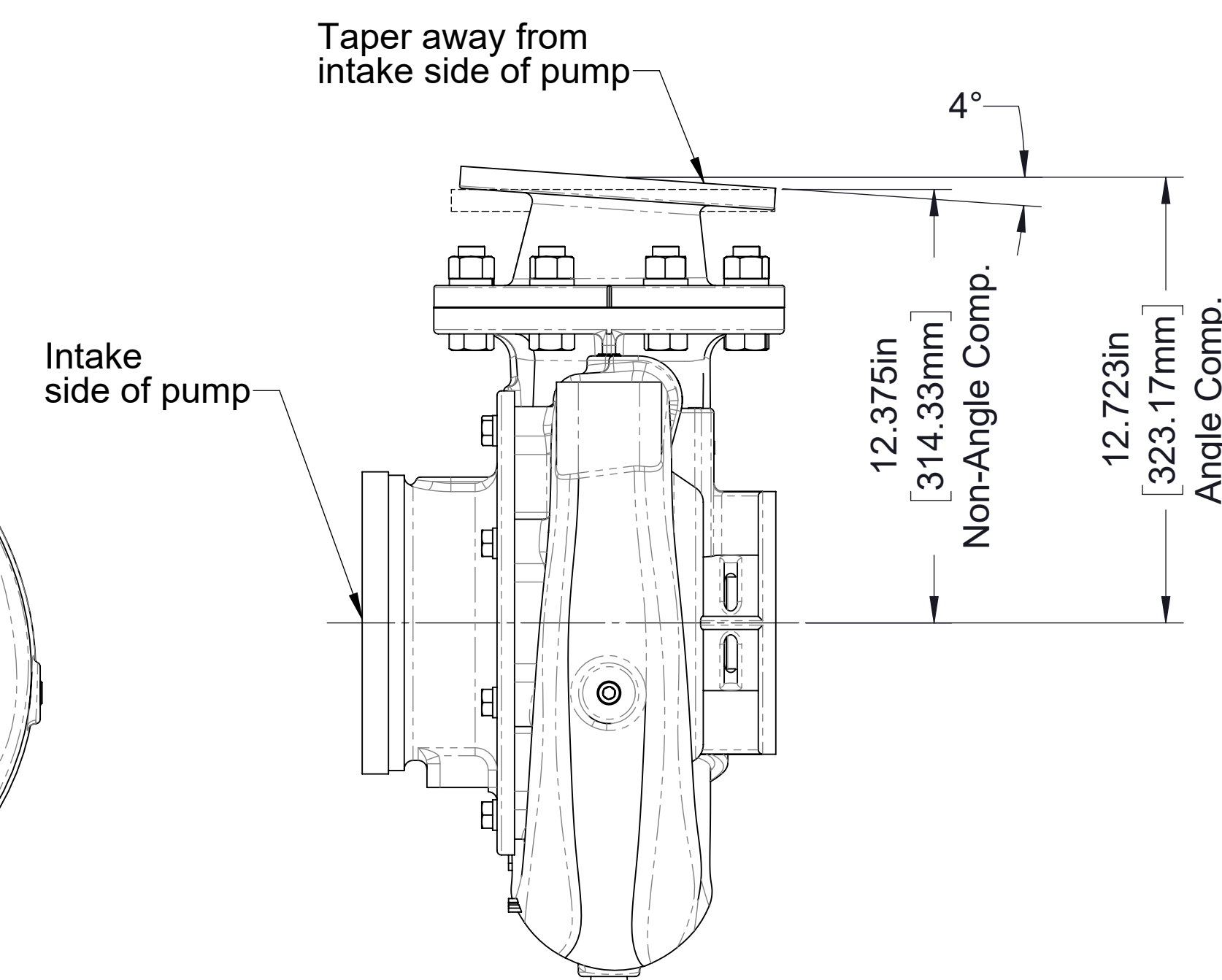
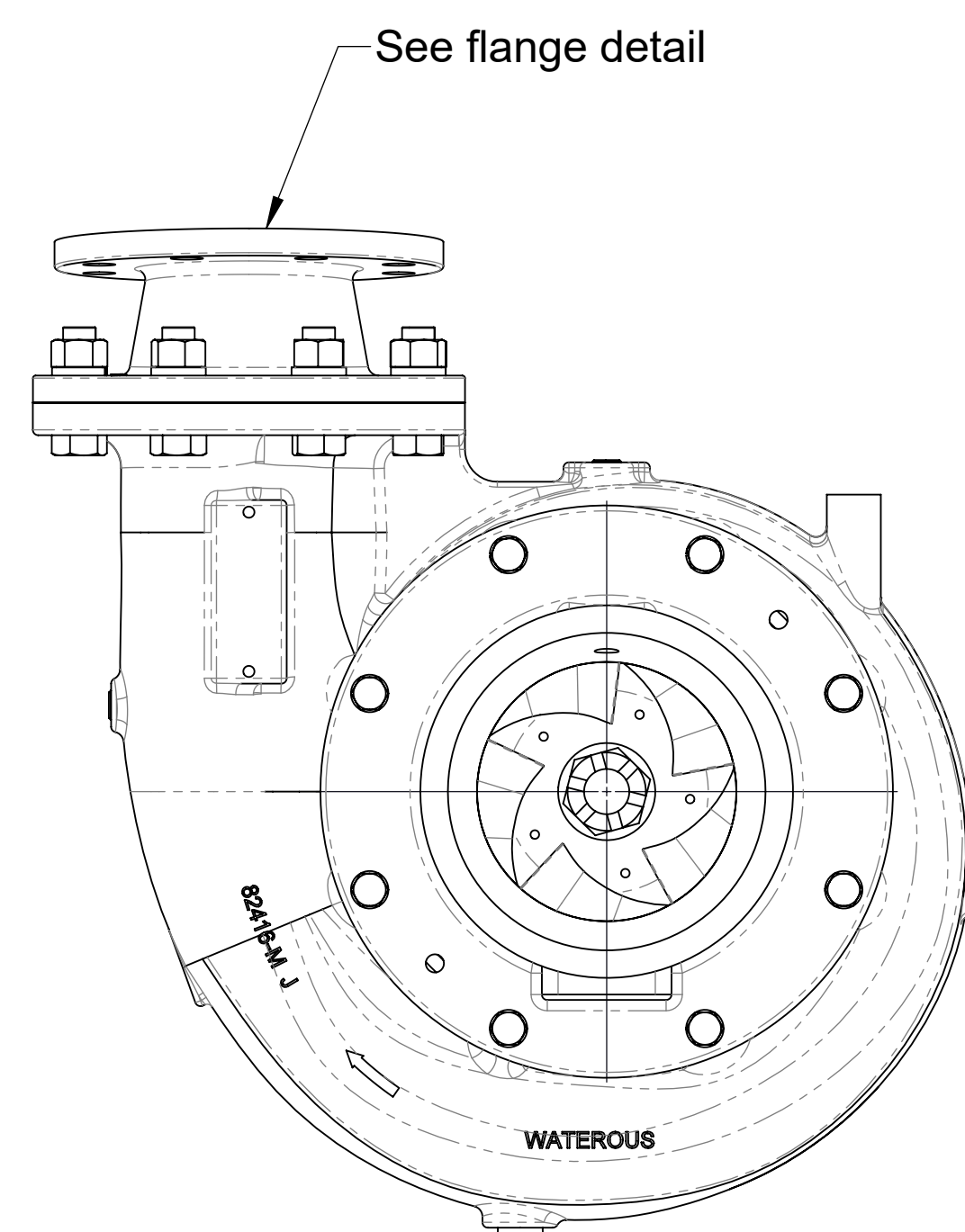
Models S100C20, S100PA
Pump mounted on front
(input shaft side) of transmission



Models S100C20, S100QC
Pump mounted on rear
(output shaft side) of transmission

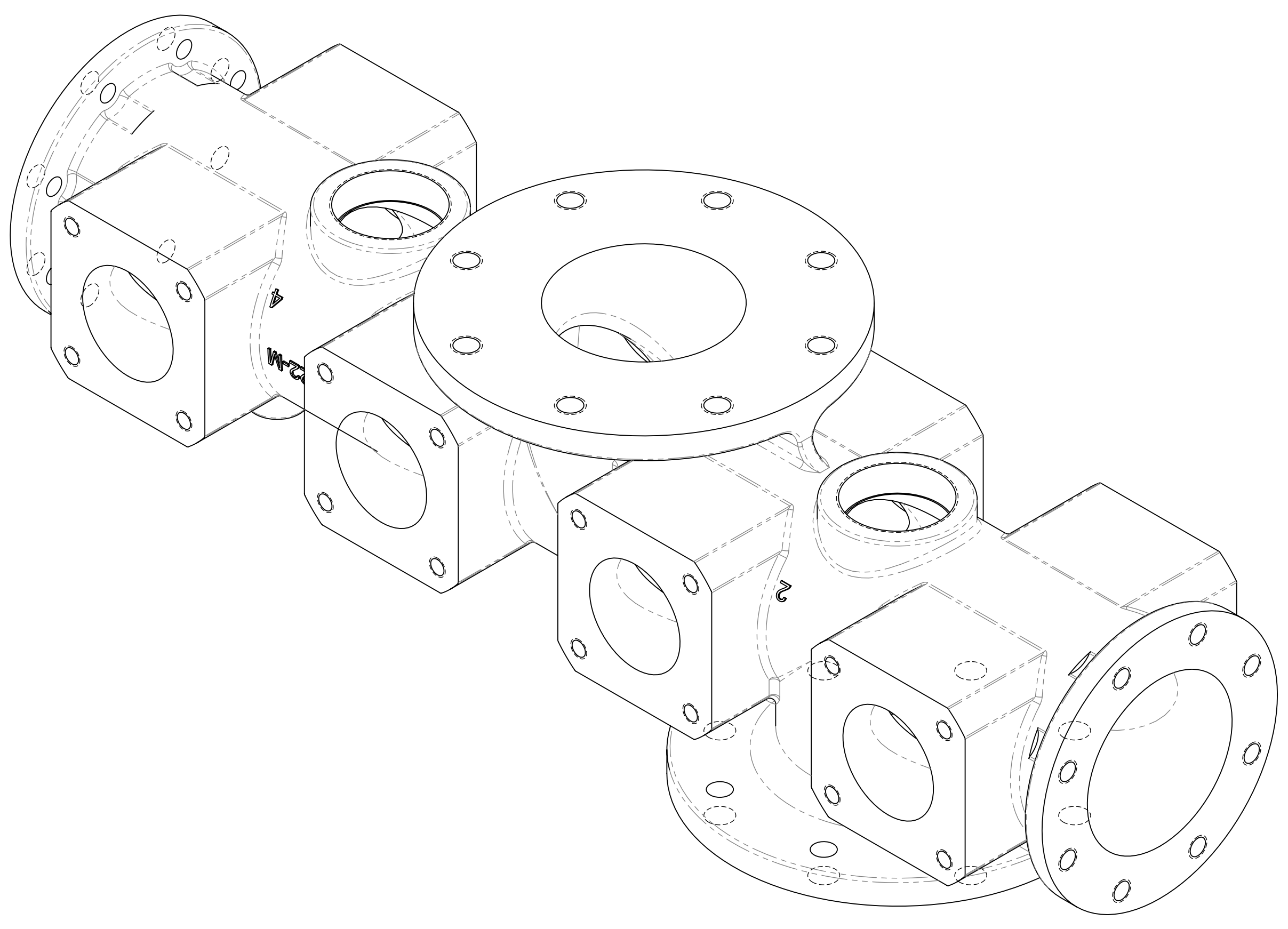
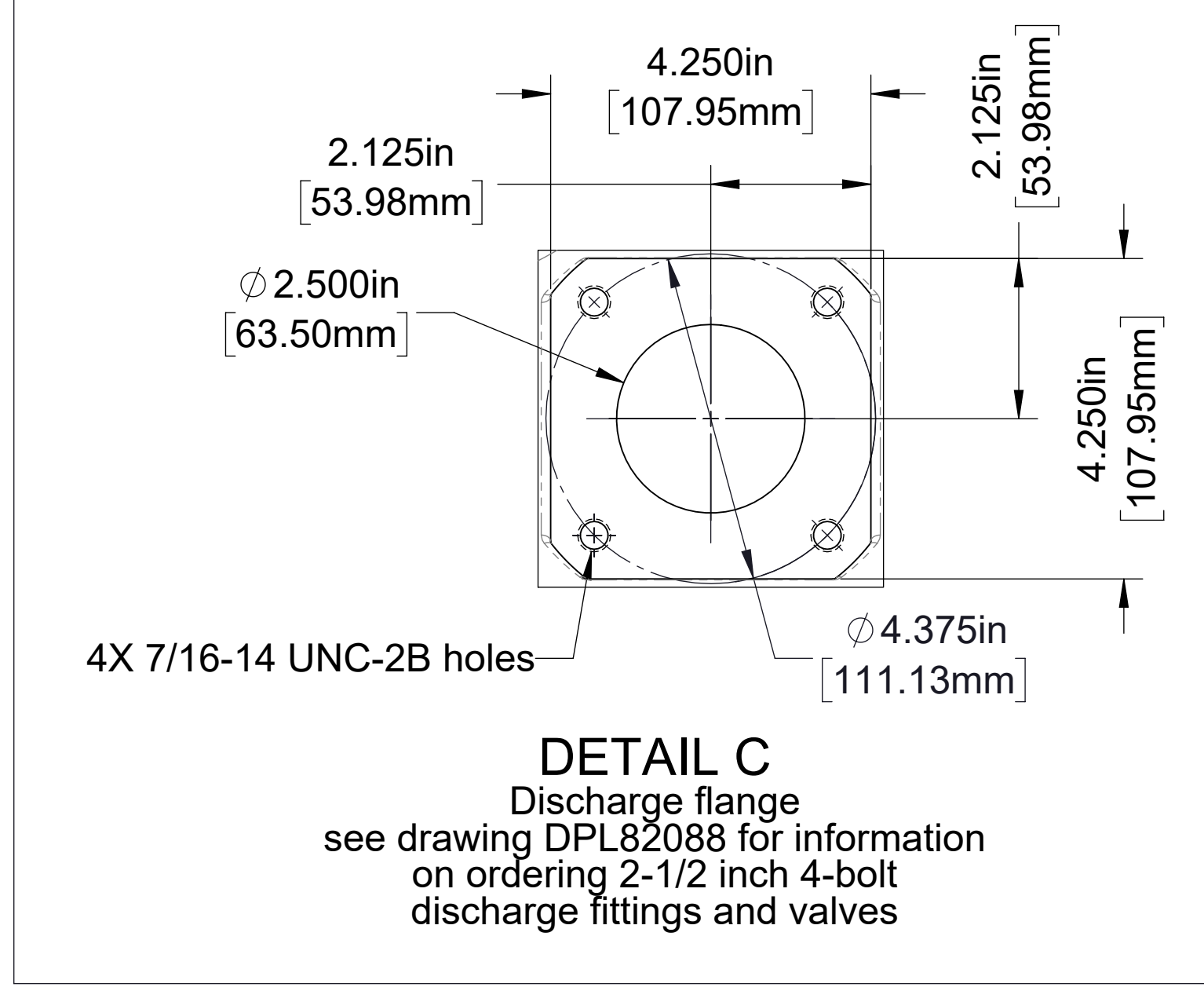
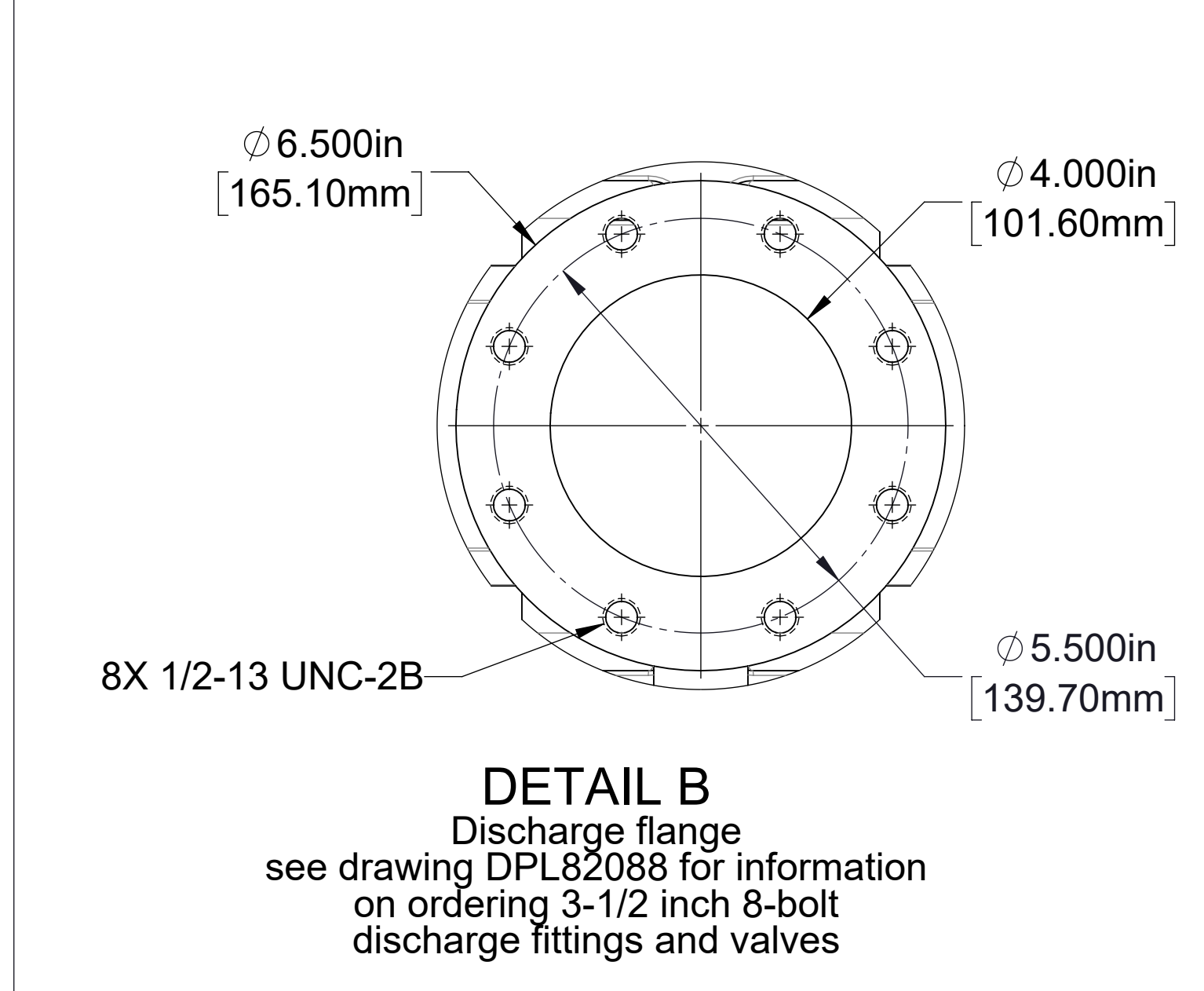
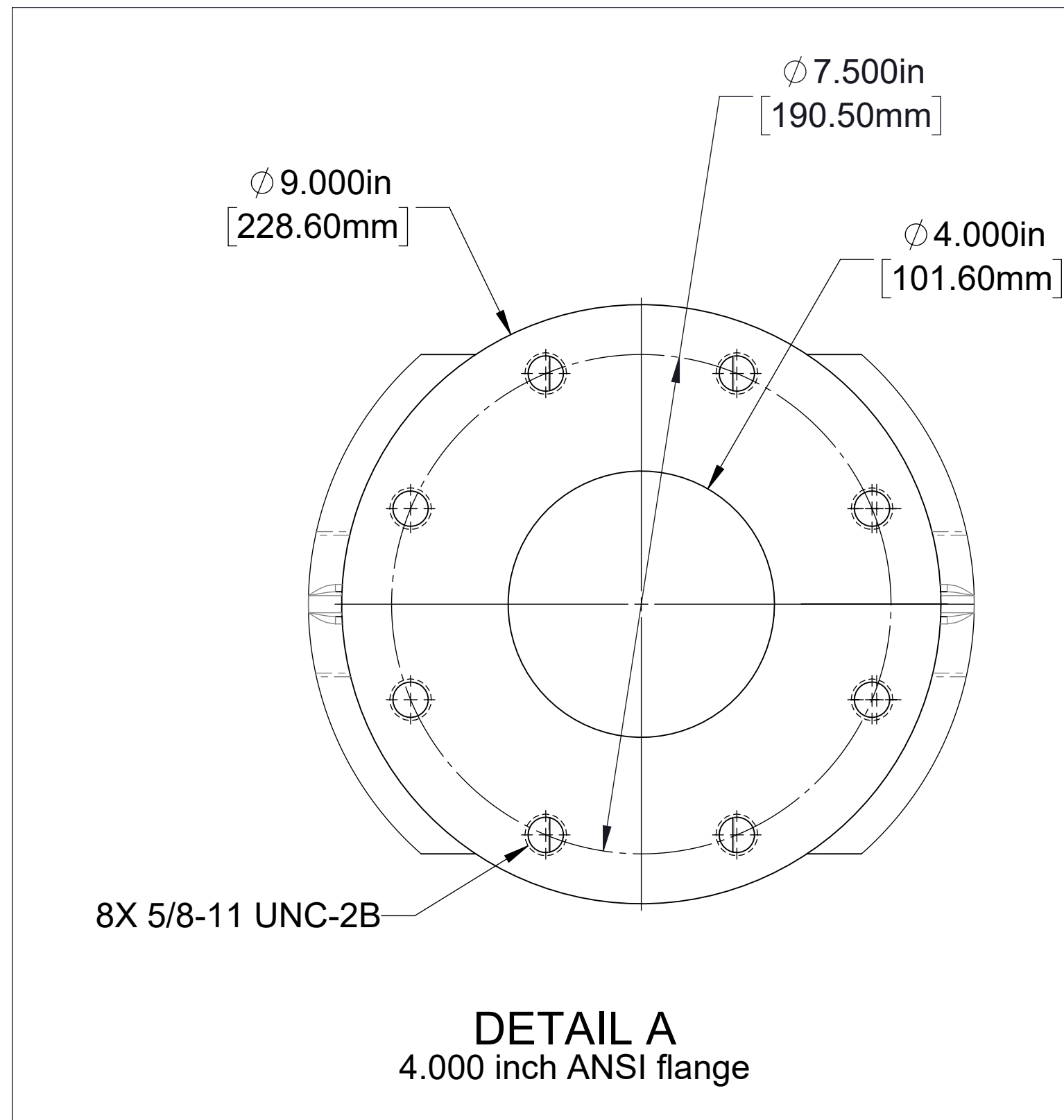
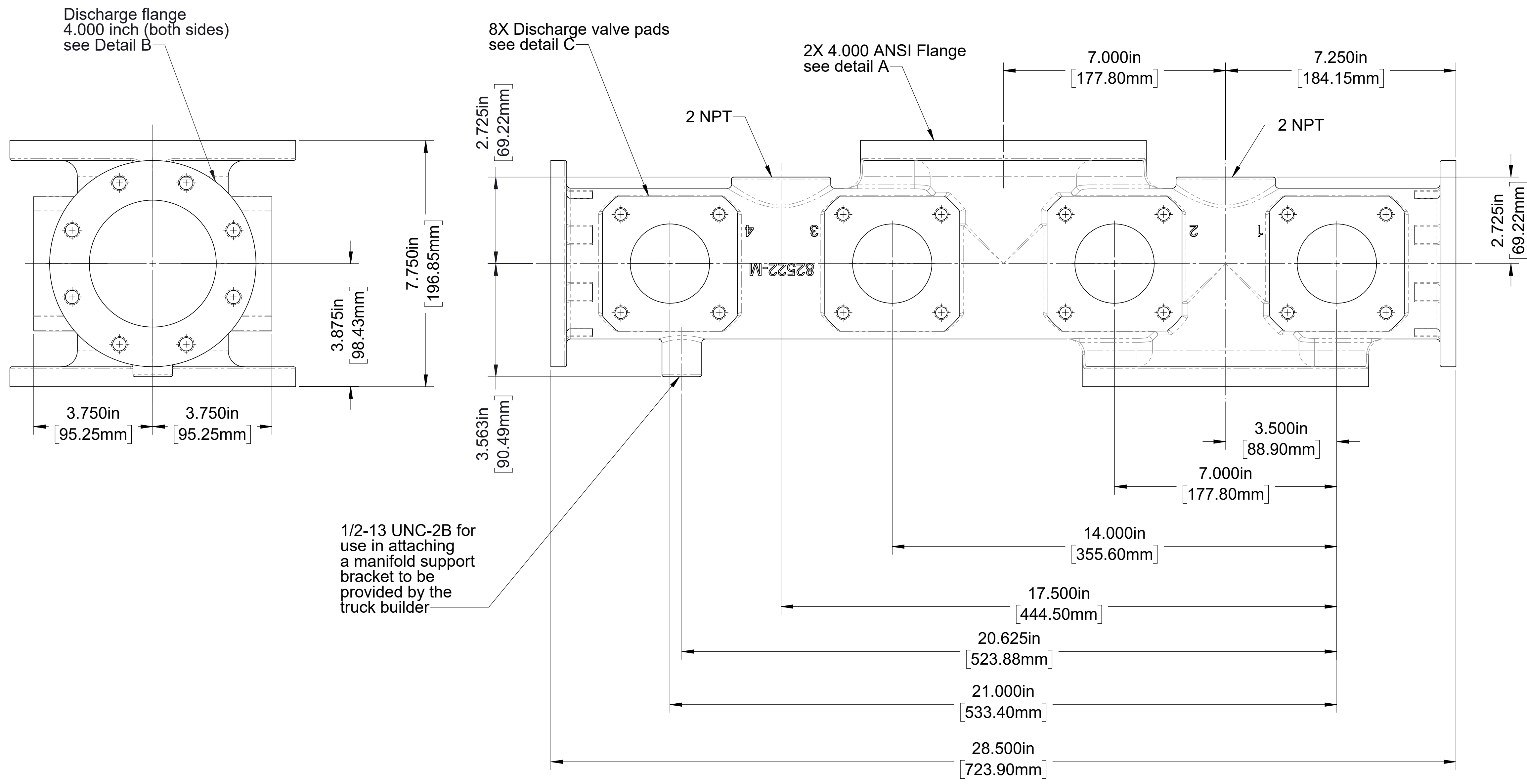


CW Input
Model S100D



CCW Input
Model S100D

Optional 4 in. ANSI Discharge Adapter
Available with or without 4° angle compensation

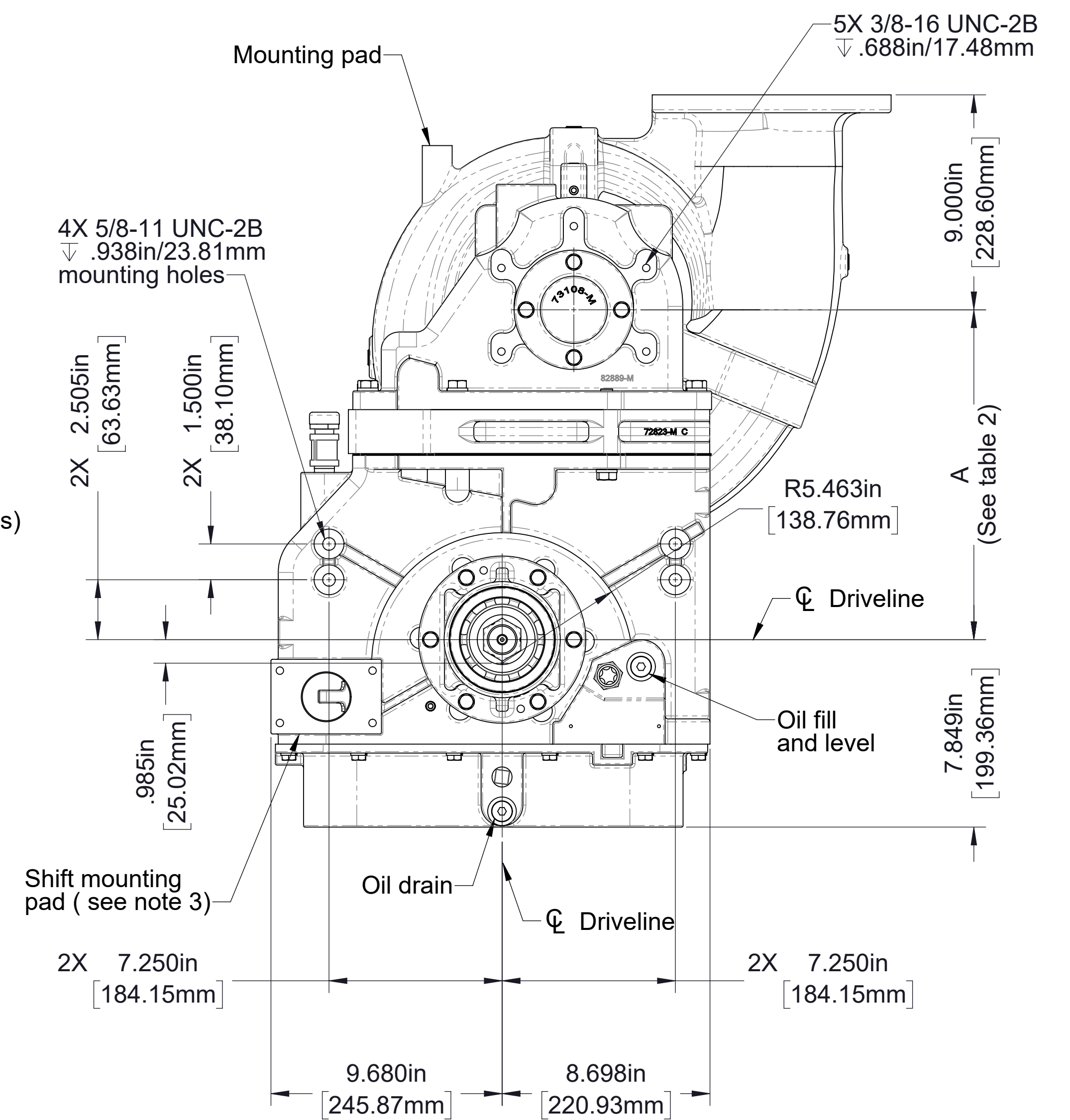
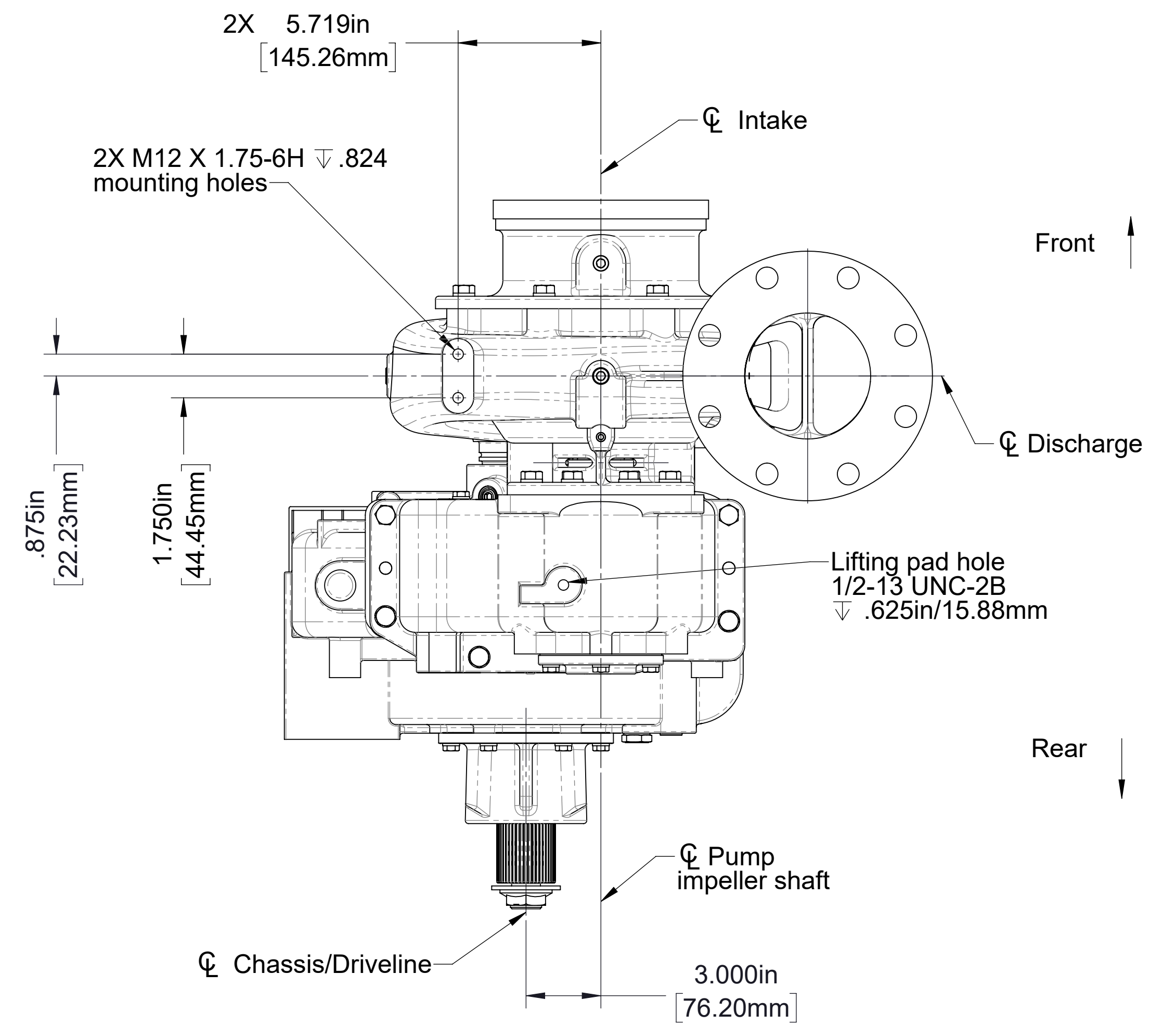
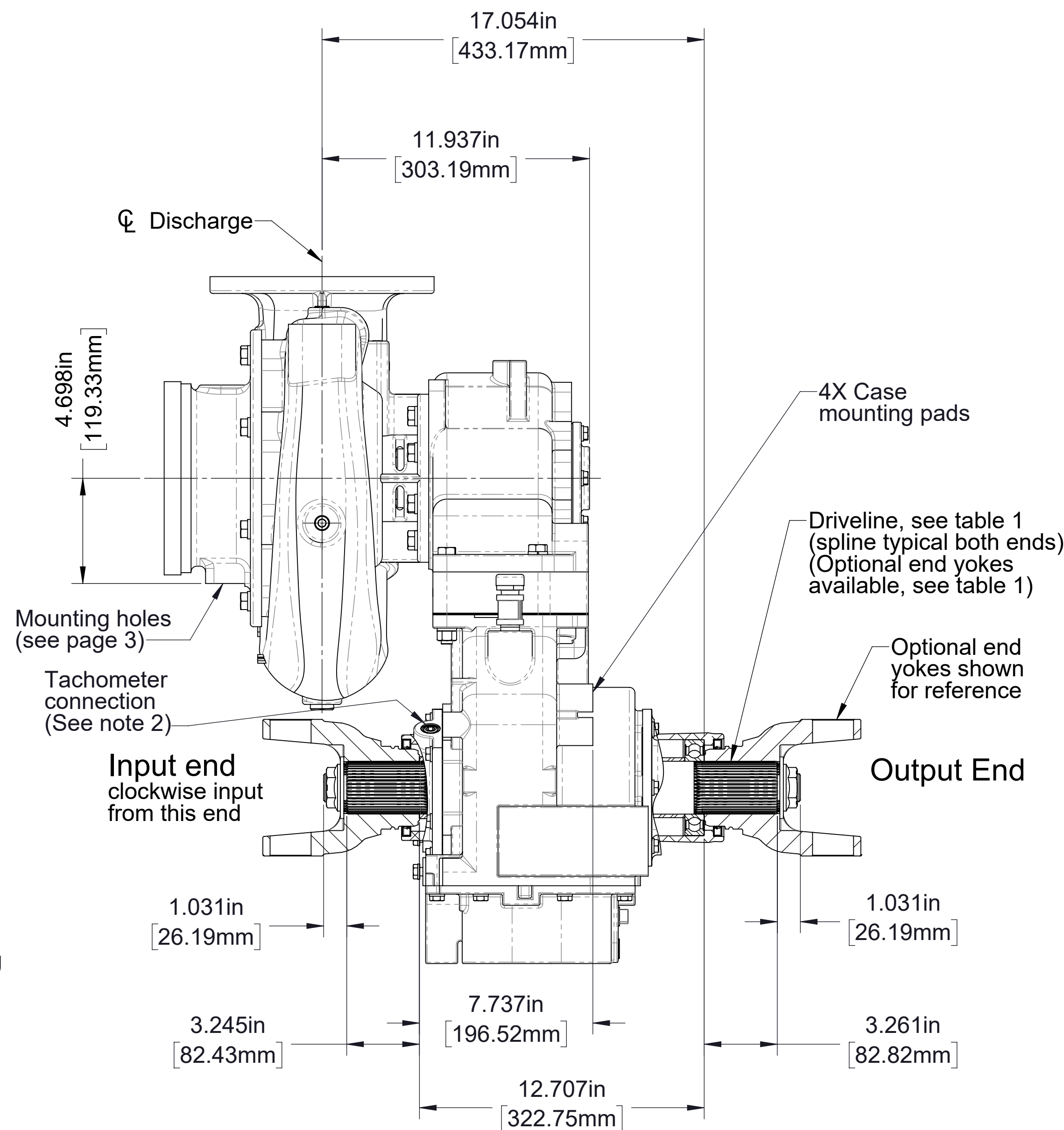


Note:
1. Pump mounted relief valve is not available with this manifold.

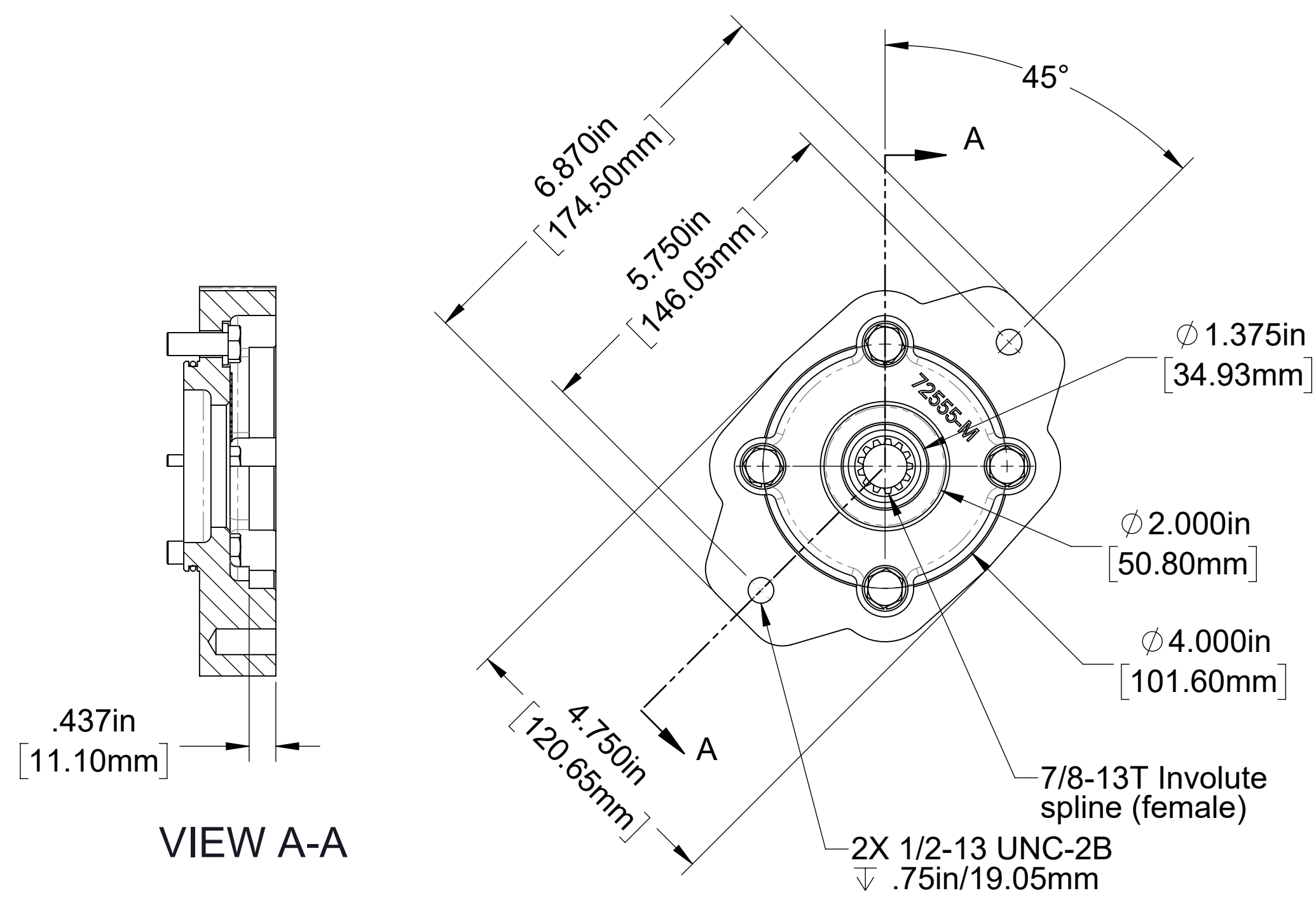
Driveline		Option End Yokes and Companion Flanges available from Waterloo				Pump Models	
Type	Size	Spline	Spicer Series	Yoke	Companion Flange		
				Part Number	Cross and Bearing Kit		
Extra Heavy Duty	2.35 Inch	2.350-46T Involute	1480/1610	--	--	V 3719	S100C20C, S100C20D, S100C20E, S100C20F
			1650/1710	--	--	V 3619	
			1710 BP	V 2837	V 2839	--	
			1810 BP	V 2838	V 2840	--	
			1710 HR	V 4101	--	--	
			1810 HR	V 4102	--	--	
			SPL140	V 3388	V 3389	--	

Drive to Driven Ratio	Dimension A			
	C20C	C20D	C20E	C20F
1.27	14.312in 363.52mm	14.825in 376.56mm	16.861in 428.27mm	18.892in 479.86mm
1.41	13.899in 353.03mm	14.931in 379.25mm	16.971in 431.06mm	19.002in 482.65mm
1.48	13.878in 352.50mm	14.907in 378.64mm	16.951in 430.56mm	18.981in 482.65mm
1.58	13.756in 349.40mm	14.788in 375.62mm	16.830in 427.48mm	18.861in 479.07mm
1.69	13.839in 351.51mm	14.876in 377.85mm	16.923in 429.84mm	18.961in 481.61in
1.79	14.045in 356.74mm	15.072in 382.83mm	17.127in 435.03mm	19.168in 486.87mm
1.88	13.690in 347.73mm	14.717in 373.81mm	16.773in 426.03mm	18.809in 477.75mm
1.97	13.870in 352.30mm	14.912in 378.76mm	16.970in 431.04mm	19.012in 482.90mm
2.03	13.984in 355.19mm	15.028in 381.71mm	17.086in 433.98mm	19.132in 485.95mm
2.27	13.811in 350.80mm	14.856in 377.34mm	16.920in 429.77mm	18.971in 481.86mm
2.46	14.042in 356.67mm	15.087in 383.21mm	17.154in 435.71mm	19.205in 487.81mm
2.68	13.746in 394.15mm	14.793in 375.74mm	16.865in 428.37mm	18.923in 480.64mm

- Notes:
- See table 2 for available ratios.
 - See drawing DPL82649 for additional details on S100C20 pumps with Eclipse ES CAFS and drawing DPL82994 for additional details of C20 series transmissions.
 - See drawing DPL82086 for shift unit details.



Model S100C20
Input and output shaft
Pump mounted on front (input shaft side) of transmission
Clockwise input, model S100C20C, 2.27 ratio shown, blank discharge, up discharge position shown

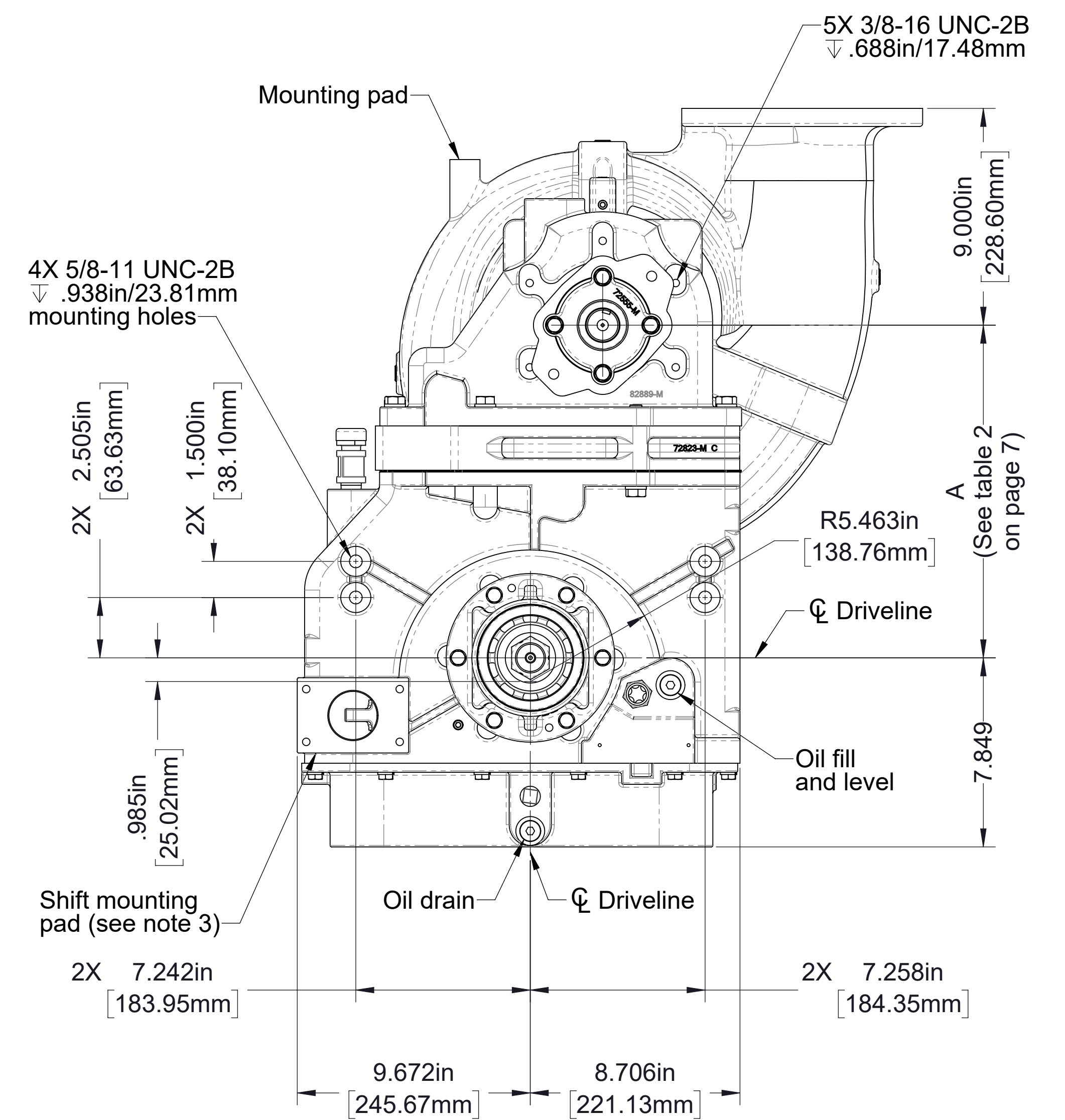
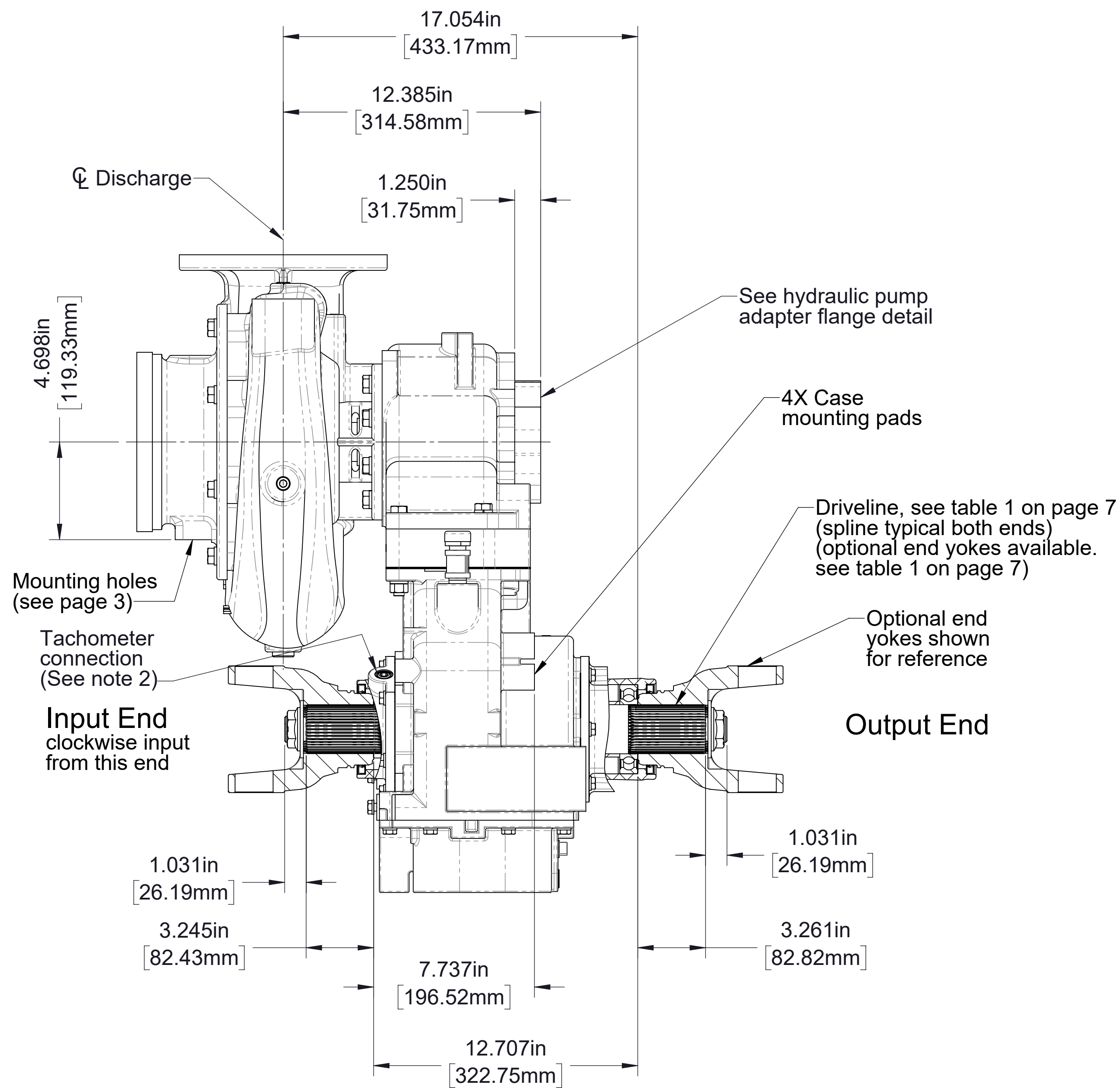
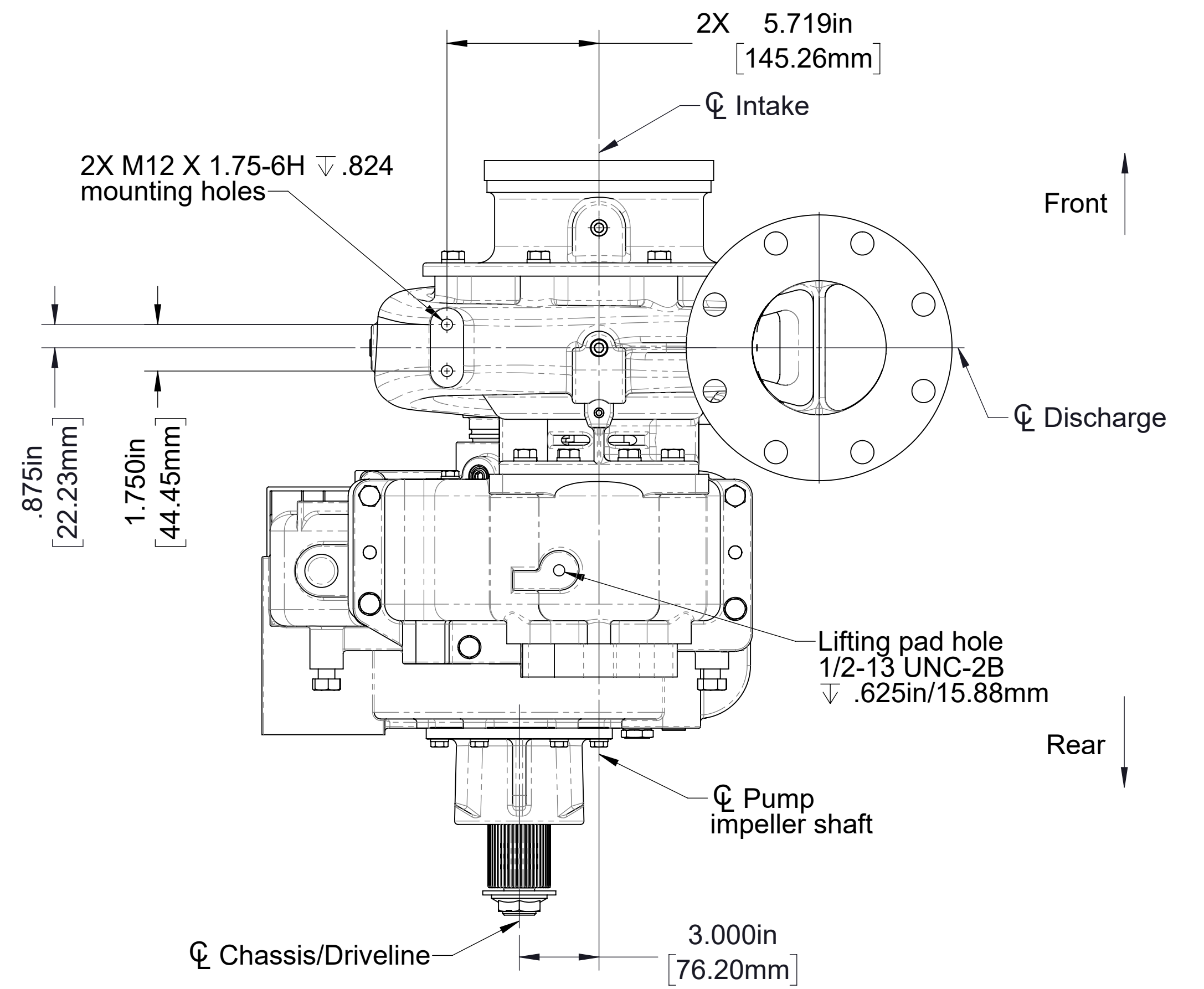


VIEW A-A

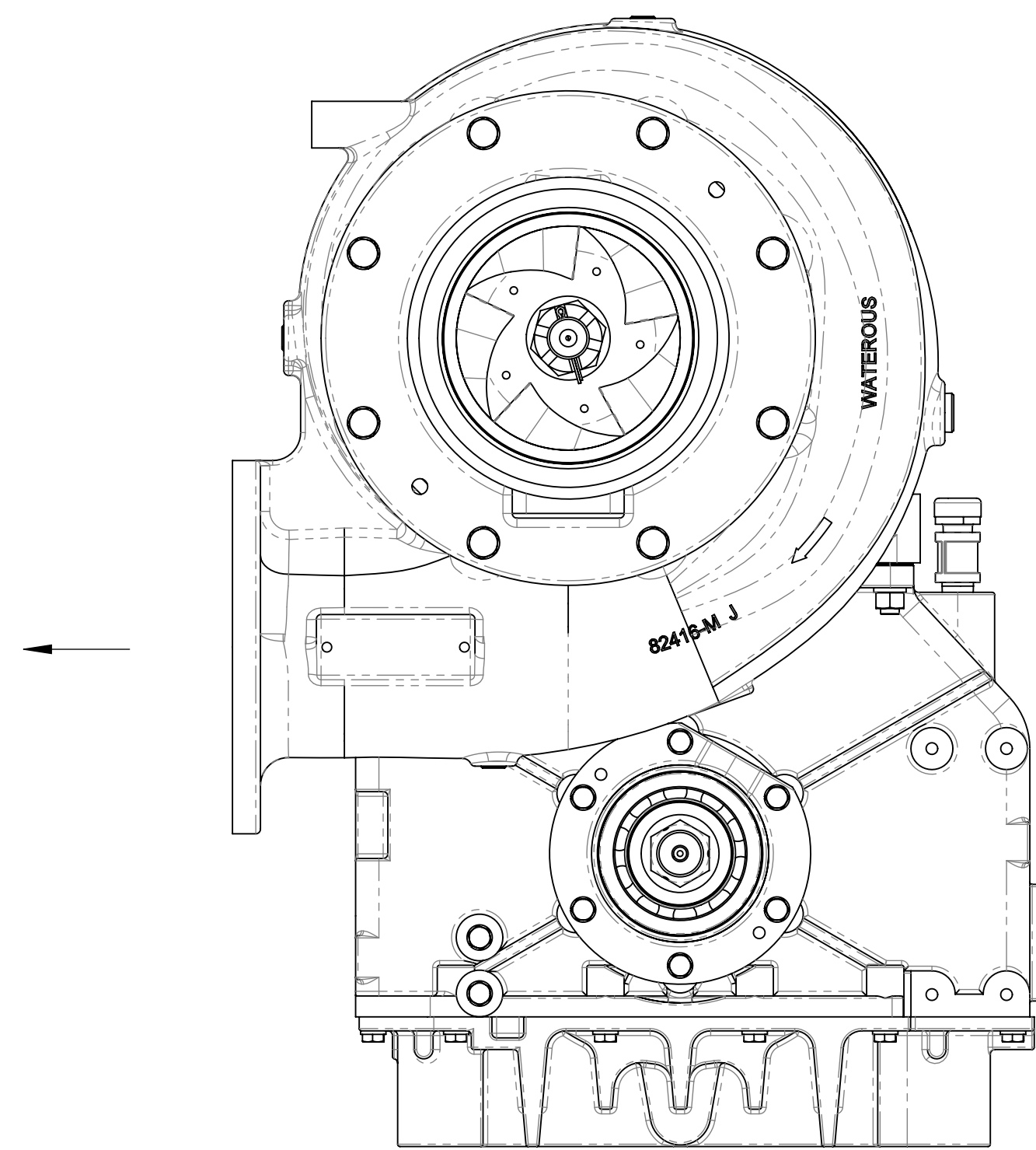
Hydraulic Pump Adapter Flange Detail

Used for SAE J744 class B 2-bolt Hydraulic pump with male 7/8-13T 16/32 pitch involute spline

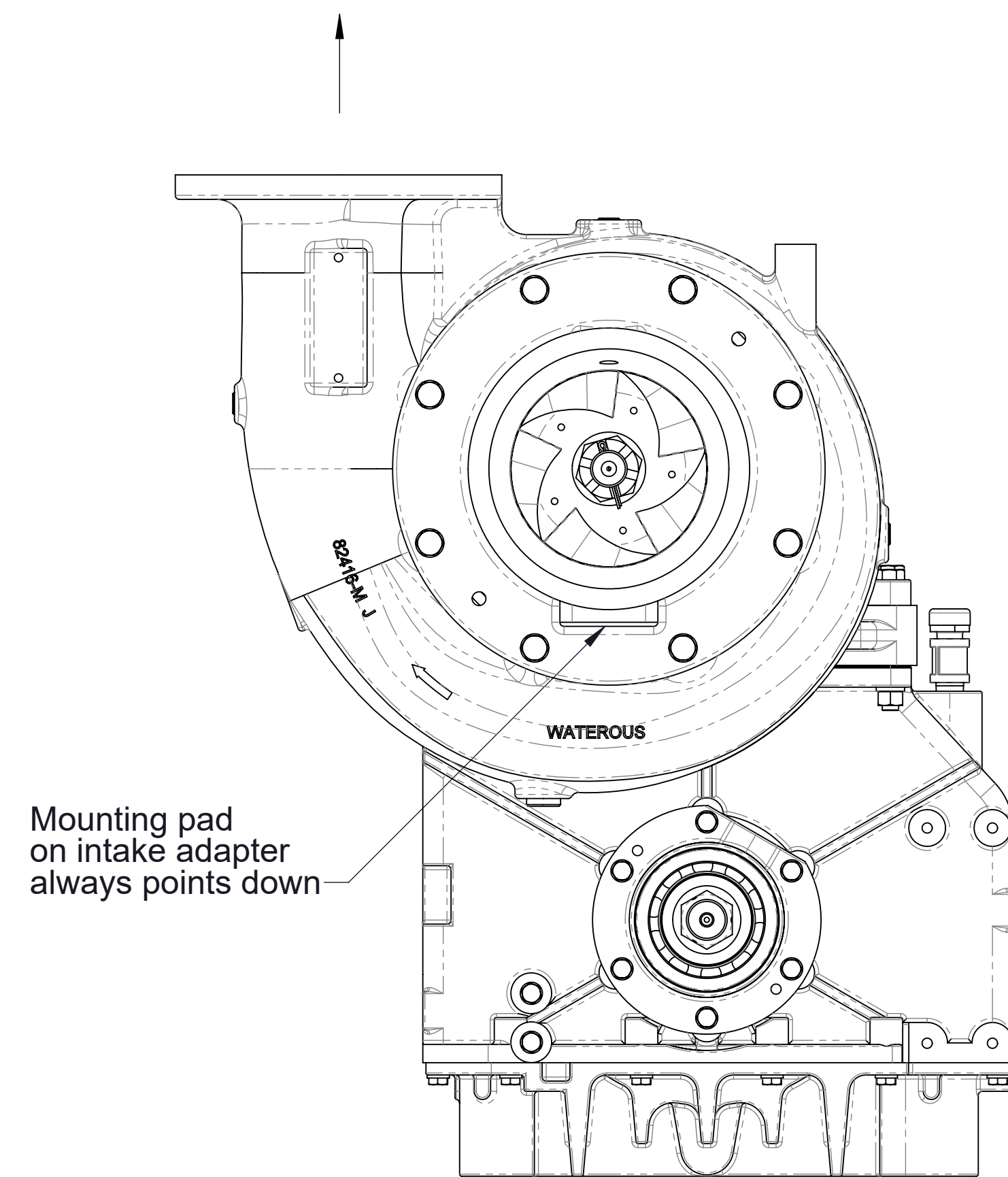
- Notes:
1. See table 2 on page 7 for available ratios.
 2. See drawing DPL82994 for additional details of C20 series transmissions.
 3. See drawing DPL82086 for shift unit details.



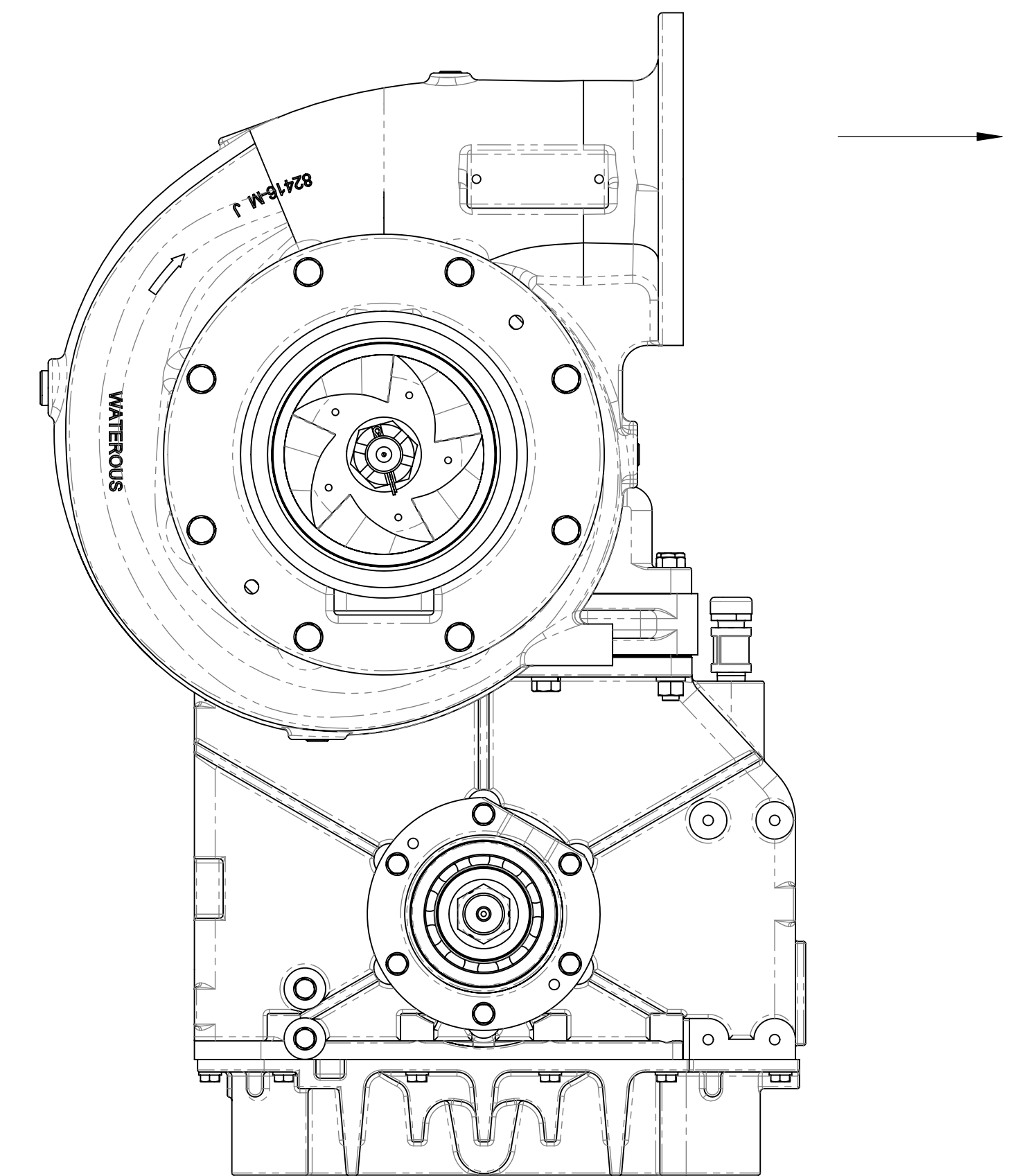
Model S100C20
 Input and output shaft
 Pump mounted on front (input shaft side) of transmission
 Hydraulic pump mounting provision on rear (output shaft side) of transmission
 Clockwise input, model S100C20C, 2.27 ratio shown, blank discharge, up discharge position shown



Left
(Optional discharge manifold not available)



Up



Right
(Optional discharge manifold not available)

Available discharge positions by pump model:

S100C20C	S100C20D	S100C20E	S100C20F
Up (2) Right	Left (3) Up Right	Left Up Right	Left Up Right

Notes:

1. Positions are defined as viewed looking at transmission input shaft.
2. Up discharge position not available for S100C20C pumps with 1810 series end yokes.
3. Left discharge position not available for S100C20D pumps with 1810 series end yokes.

Discharge Positions

Ordering Information

When Ordering furnish the following informaton:

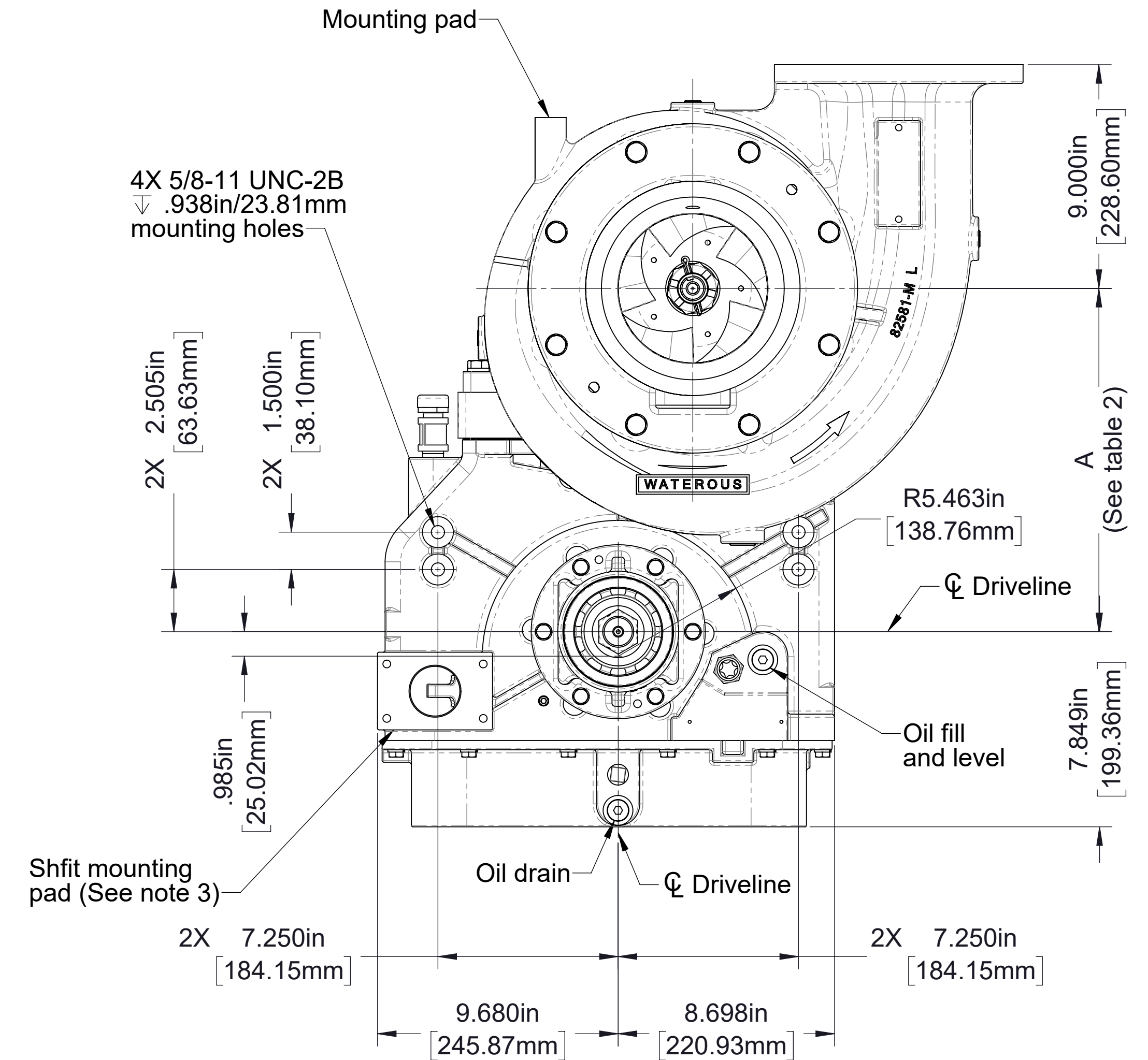
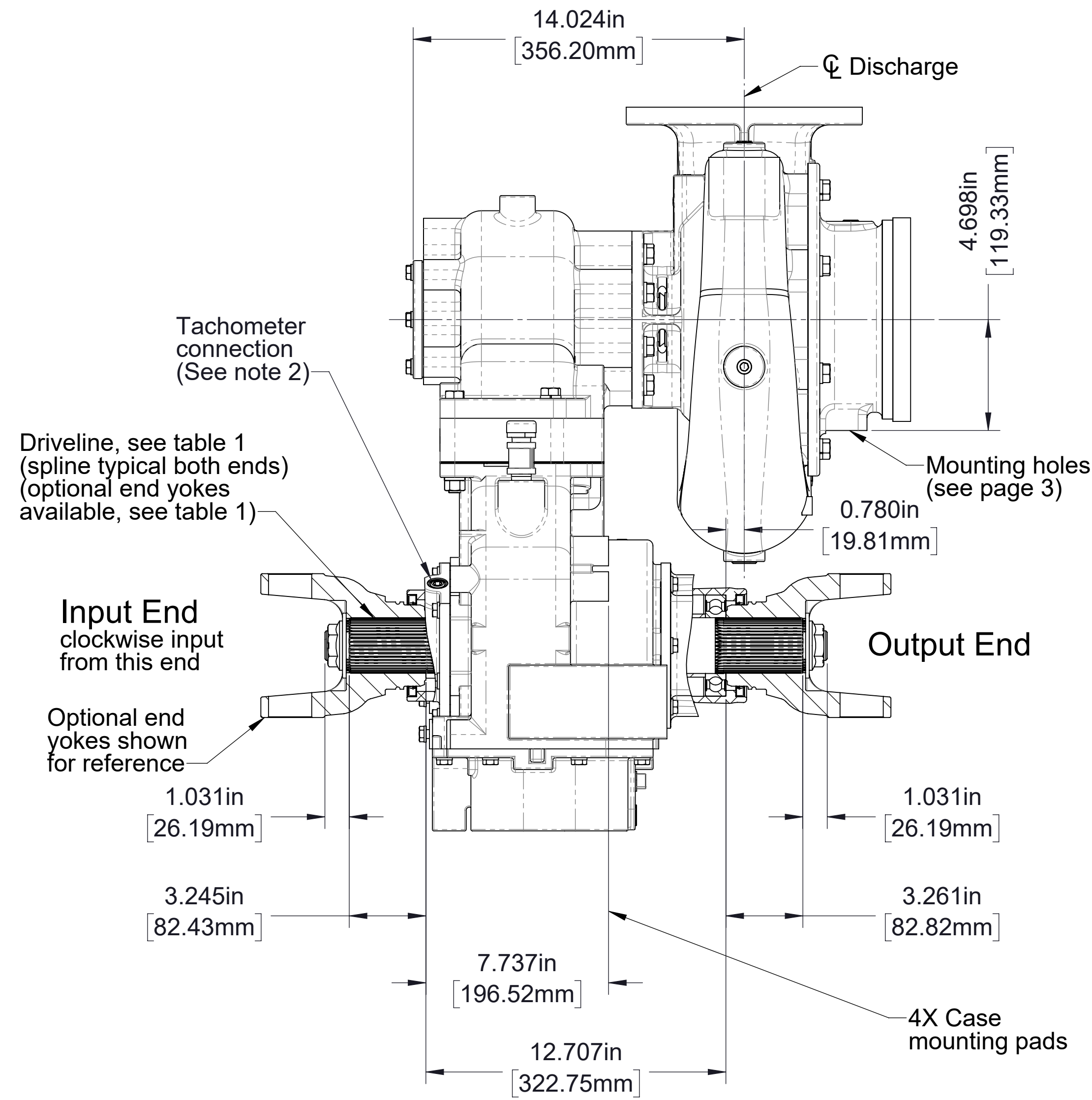
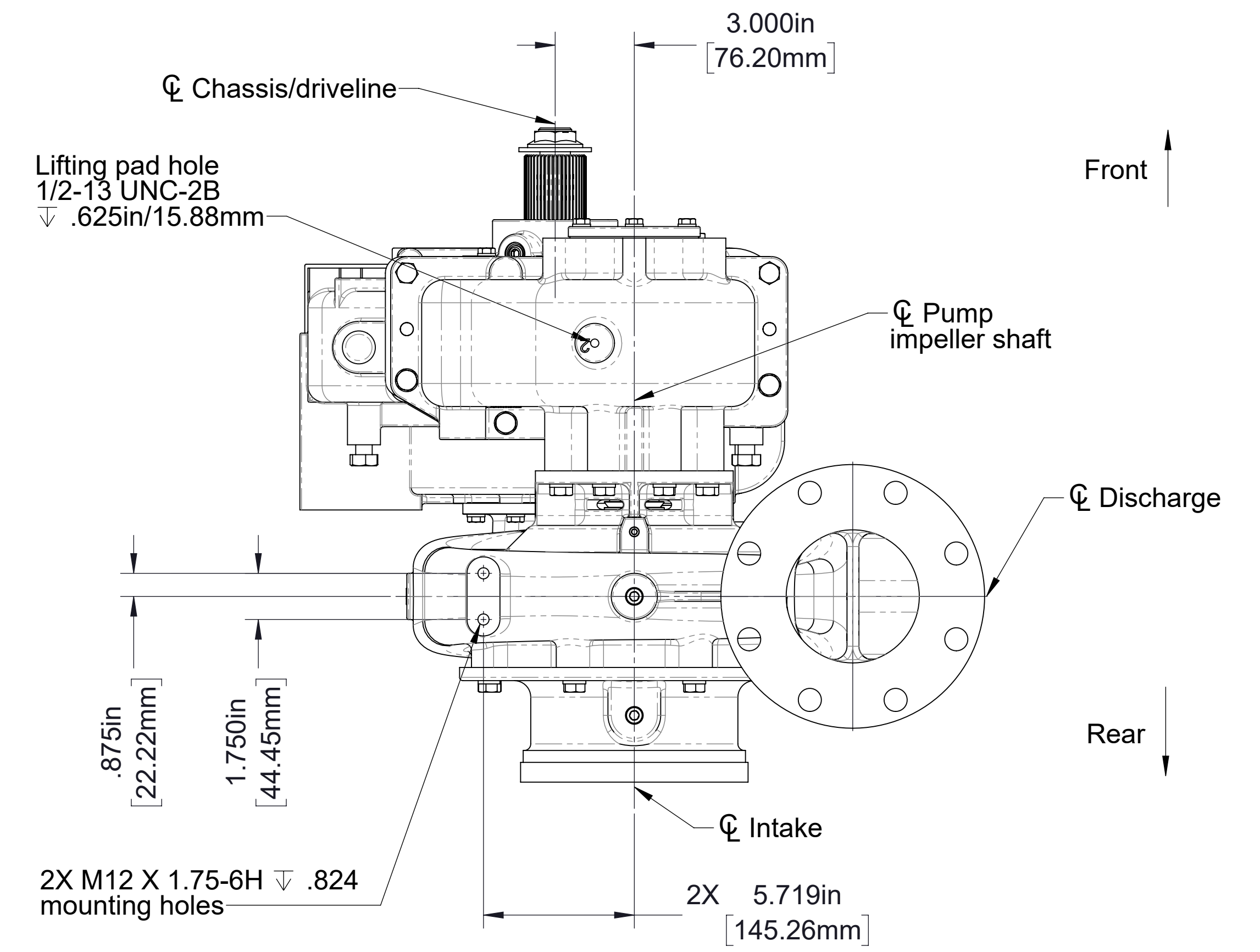
1. Pump model: (see page 7).
2. Drive to driven ratio: (see page 7).
3. Pump mounting front of transmission.
4. Discharge position: left, up or right.
5. Hydraulic adapter (see page 8).
6. Optional discharge fitting: (see pages 4 through 6).

Pump mounted on front (input shaft side) of transmission
model S100C20 ordering information

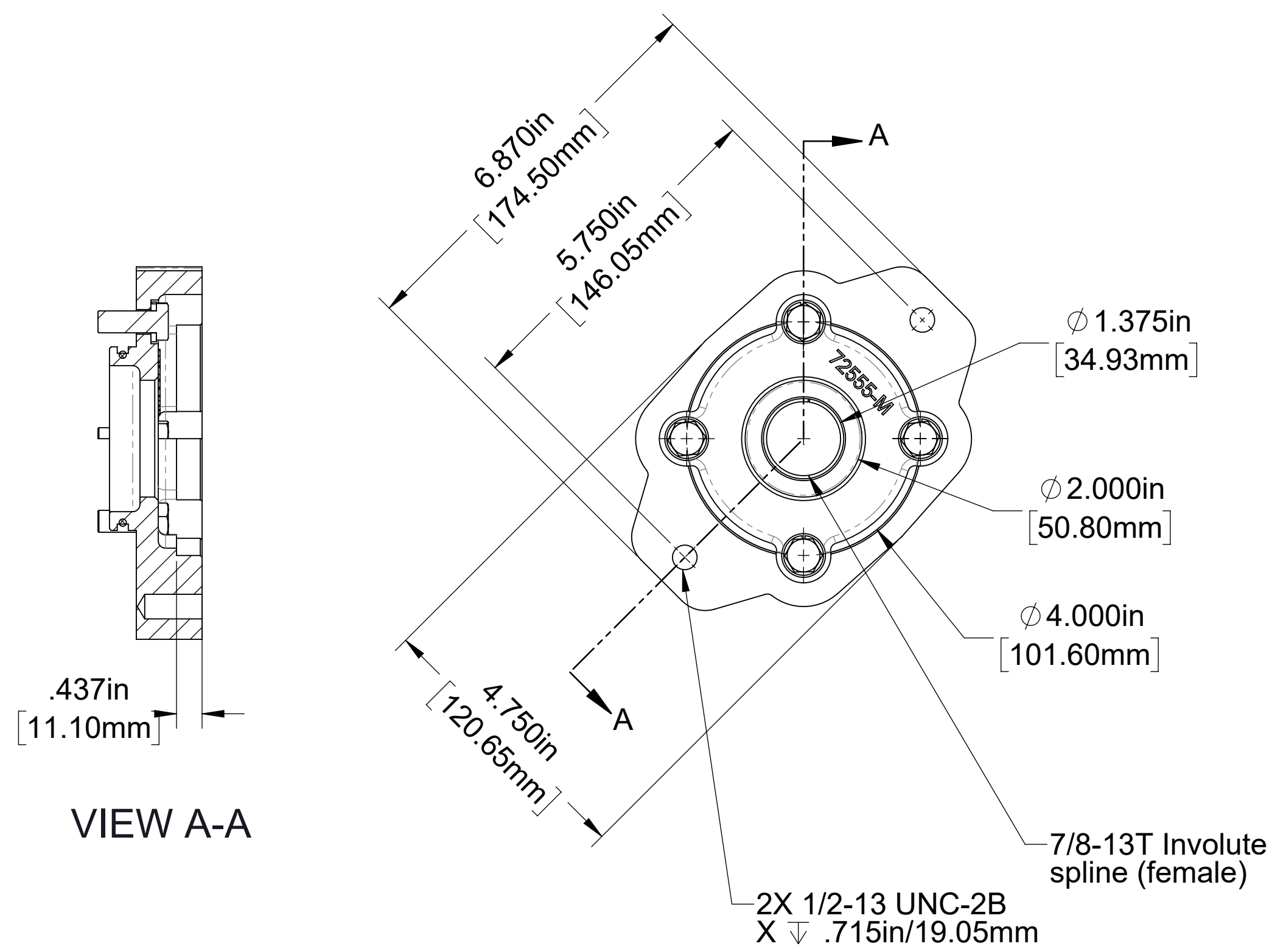
Driveline		Optional End Yokes and Companion Flanges available from Waterous				Pump Models	
Type	Size	Spline	Yoke		Companion Flange		
			Spicer Series	Part Number	Cross and Bearing Kit		
Extra Heavy Duty	2.35 Inch	2,350-46T Involute	1480/1610	--	--	V 3719	S100C22C, S100C22D, S100C22E, S100C22F
			1650/1710	--	--	V 3619	
			1710	V 2837	V 2839	--	
			1810	V 2838	V 2840	--	
			SPL140	V 3388	V 3389	--	

Drive to Driven Ratio	Dimension A			
	C20C	C20D	C20E	C20F
1.27	14.312in 363.52mm	14.825in 376.56mm	16.861in 428.27mm	18.892in 479.86mm
1.41	13.899in 353.03mm	14.931in 379.25mm	16.971in 431.06mm	19.002in 482.65mm
1.48	13.878in 352.50mm	14.907in 378.64mm	16.951in 430.56mm	18.981in 482.12mm
1.58	13.756in 349.40mm	14.788in 375.62mm	16.830in 427.48mm	18.861in 479.07mm
1.69	13.839in 351.51mm	14.876in 377.85mm	16.923in 429.84mm	19.961in 481.61mm
1.79	14.045in 356.74mm	15.072in 382.83mm	17.127in 435.03mm	19.168in 486.87mm
1.88	13.690in 347.73mm	14.717in 373.81mm	16.773in 426.03mm	18.809in 477.75mm
1.97	13.870in 352.30mm	14.912in 378.76mm	16.970in 431.04mm	19.012in 482.90mm
2.03	13.984in 355.19mm	15.028in 381.71mm	17.086in 433.98mm	19.132in 485.95mm
2.27	13.811in 350.80mm	14.856in 377.34mm	16.920in 429.77mm	18.971in 481.81mm
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2.68	13.746in 349.15mm	14.793in 375.74mm	16.865in 428.37mm	18.923in 480.64mm

- Notes:
1. See table 2 for available ratios.
 2. See drawing DPL82994 for additional details of C20 series transmission.
 3. See drawing DPL82086 for shift unit details.



Model S100C20
Input and output shaft
Pump mounted on rear (output shaft side) of transmission
Clockwise input, model S100C22C, 2.27 ratio shown
blank discharge, up discharge position shown

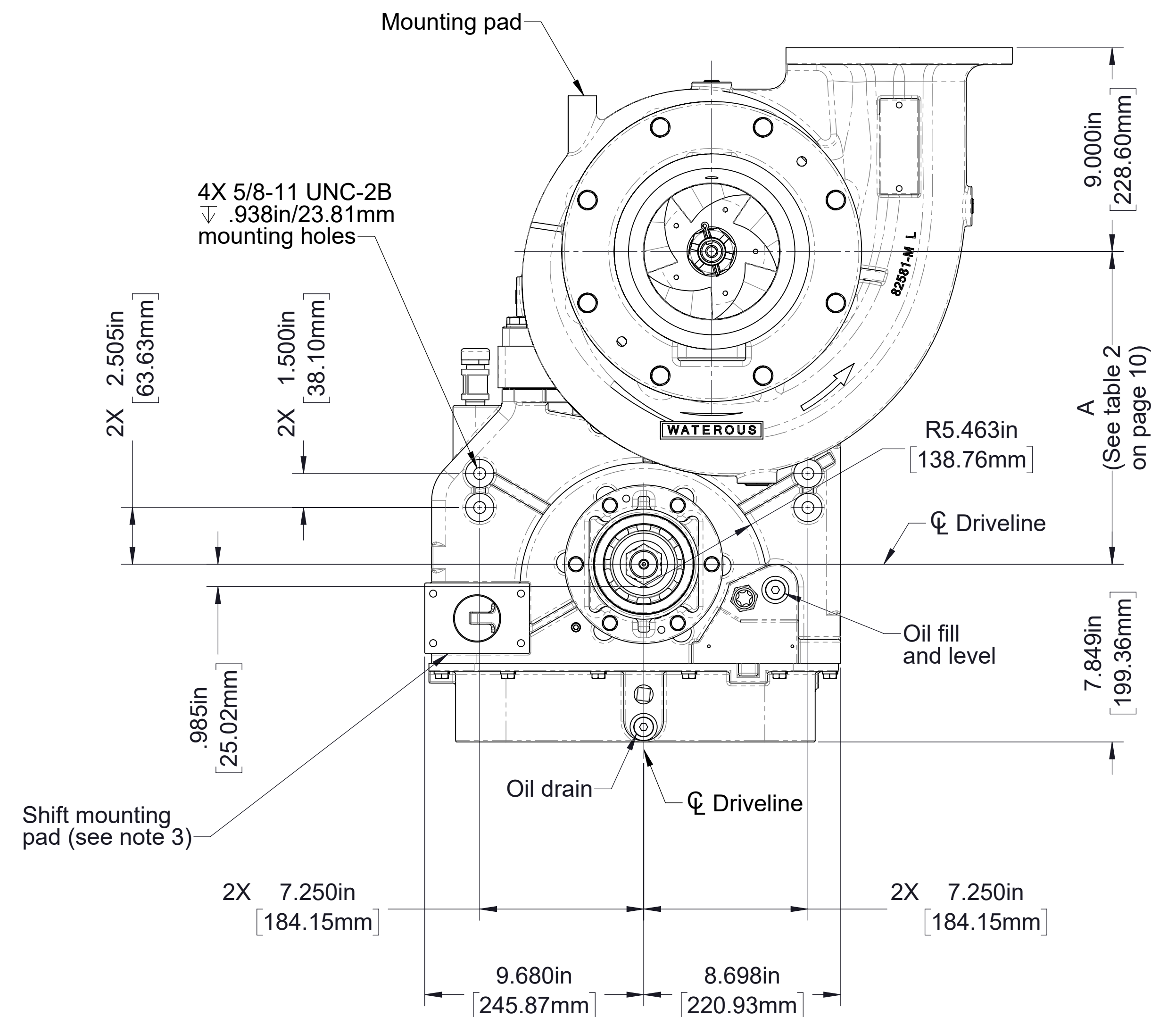
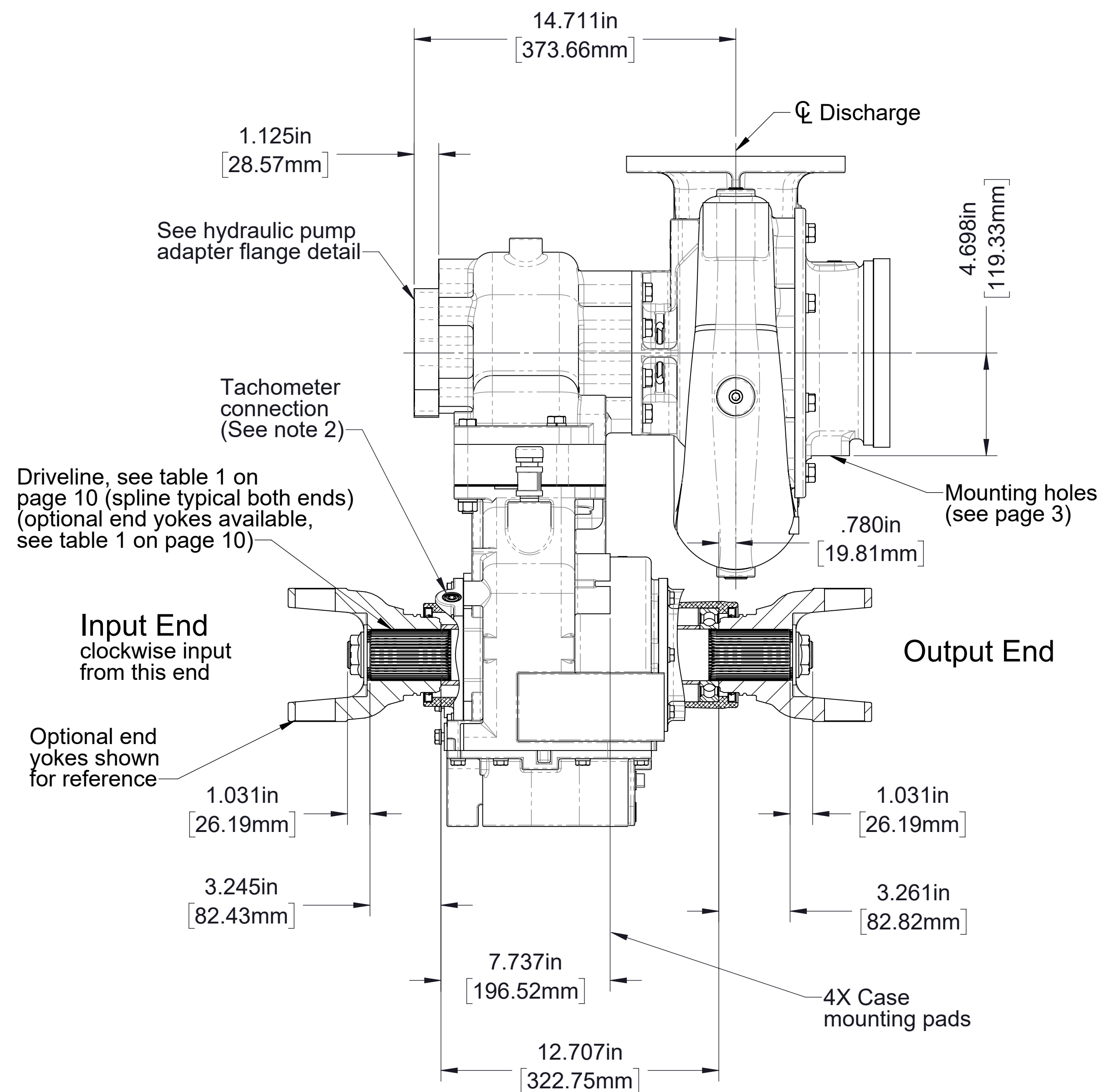
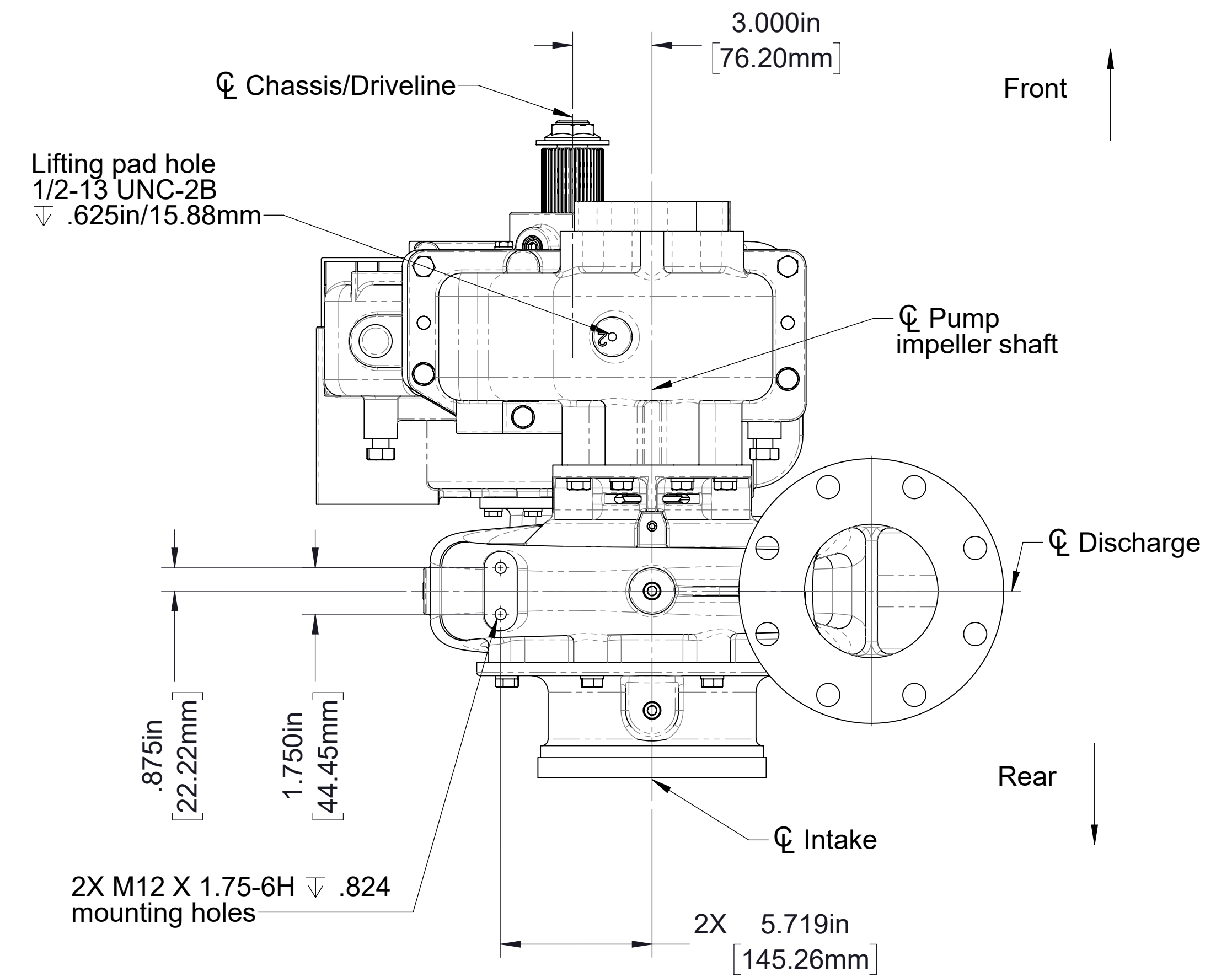


VIEW A-A

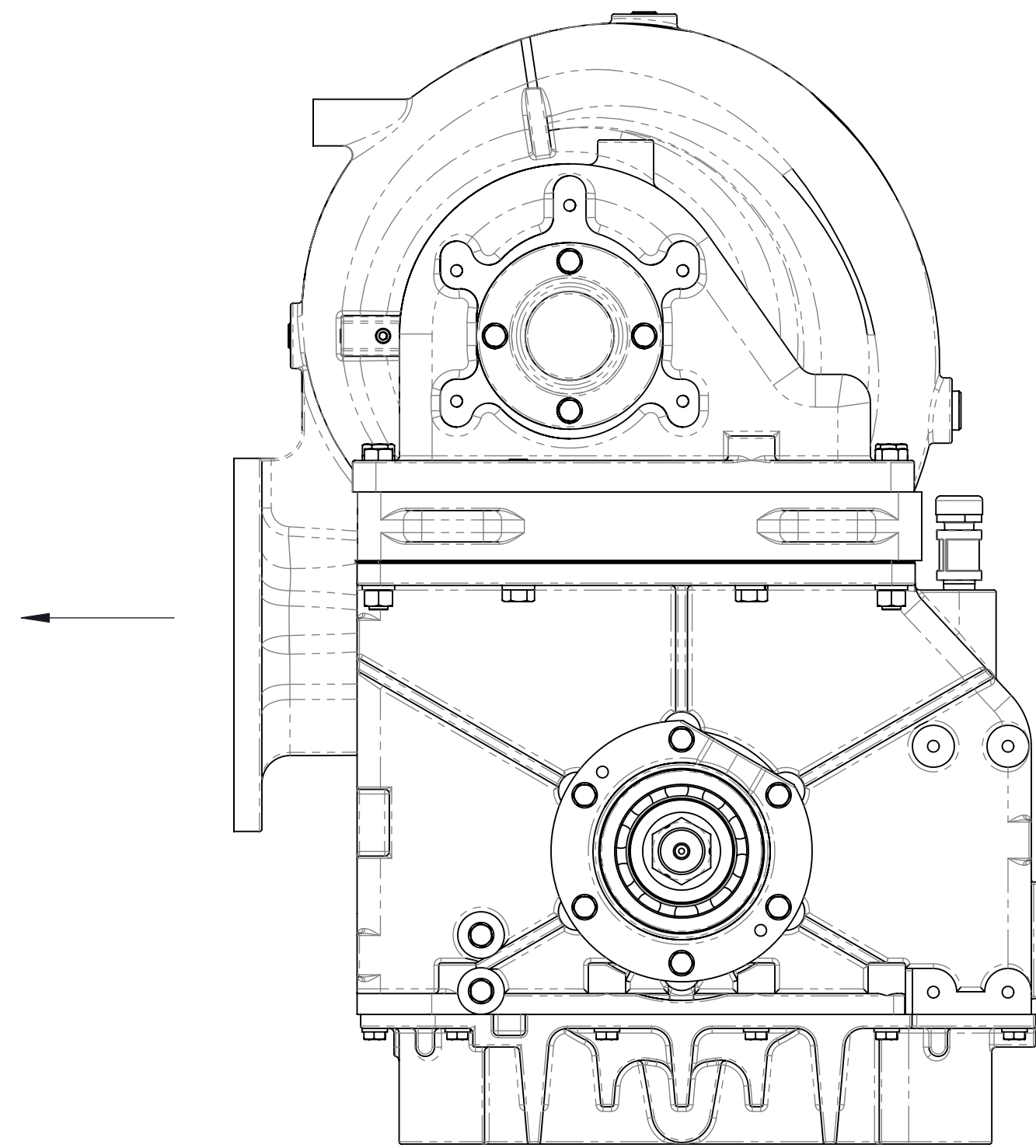
Hydraulic Pump Adapter Flange Detail

Used for SAE J744 class B 2-bolt hydraulic pump with male 7/8-13T 16/32 pitch involute spline

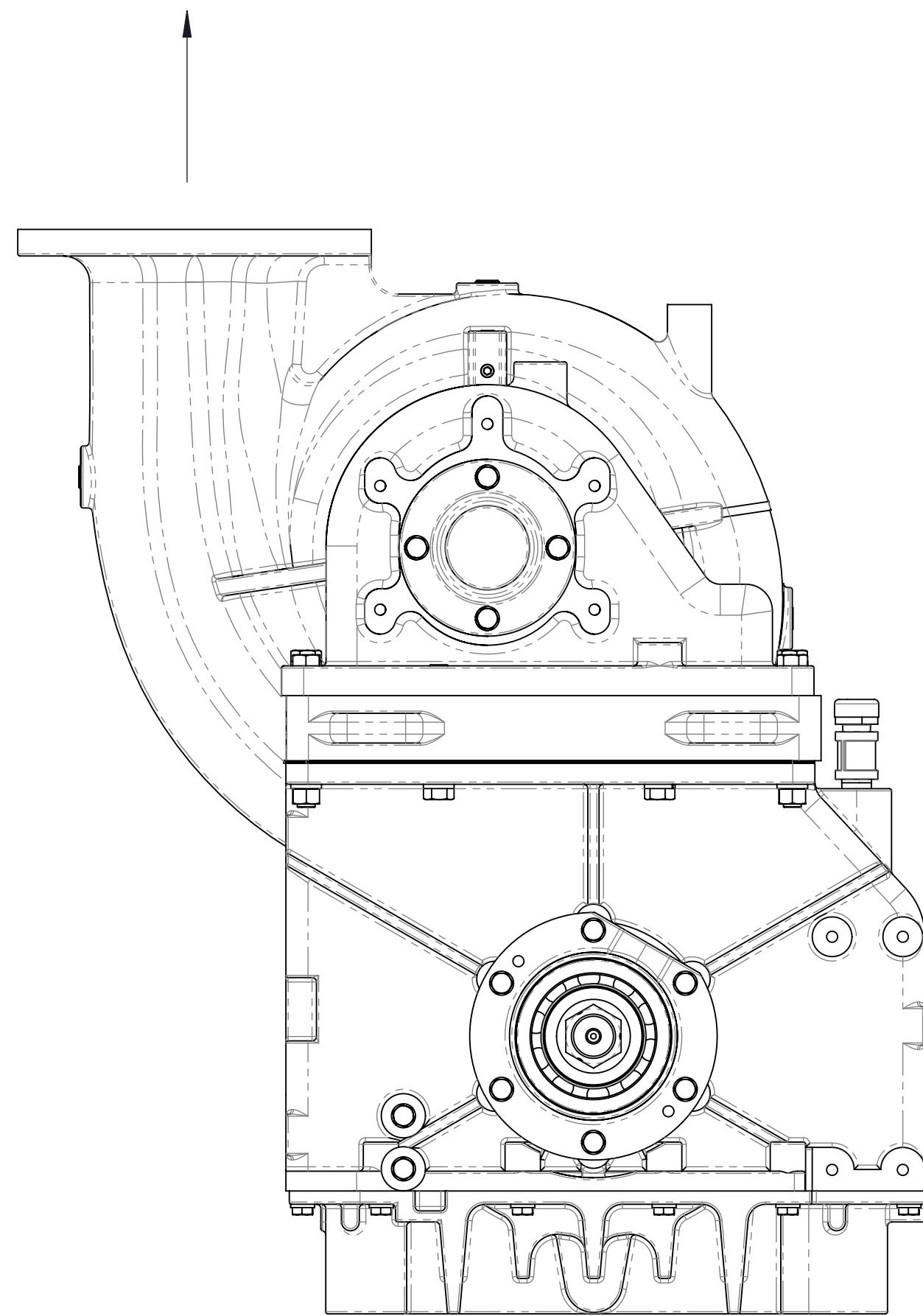
- Notes:
 1. See table 2 on page for available ratios.
 2. See drawing DPL82994 for additional details of C20 series transmissions.
 3. See drawing DPL82086 for unit details.



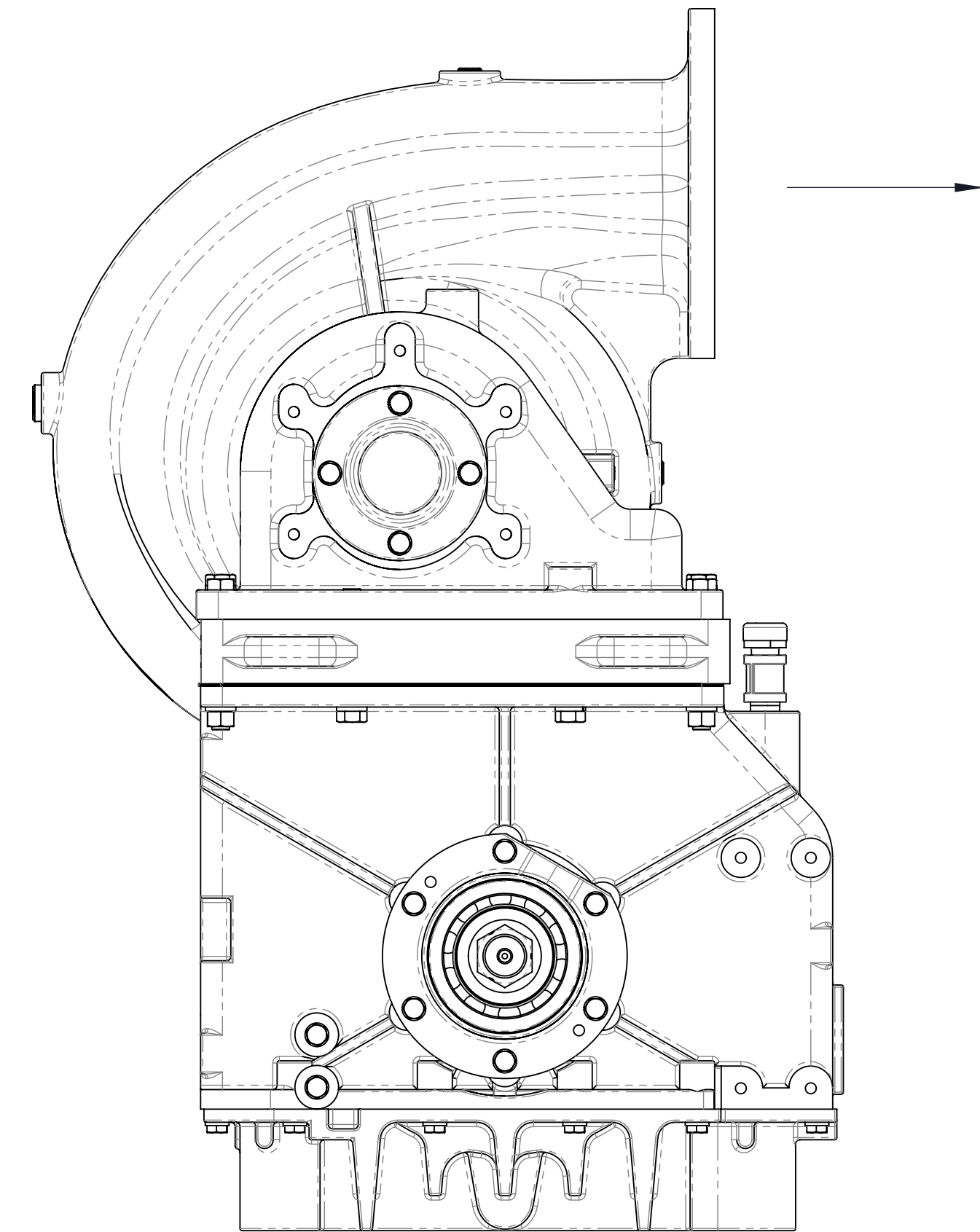
Model S100C20
 Input and output shaft
 Pump mounted on rear (output shaft side) of transmission
 Hydraulic pump mounting provision on front (input shaft side) of transmission
 Clockwise input, model S100C20C, 2.27 ratio shown
 blank discharge, up discharge position



Left
(Optional discharge manifold not available)



Up



Right
(Optional discharge manifold not available)

Available discharge positions by pump model:

S100C20C	S100C20D	S100C20E	S100C20F
Up (2) Right	Left (3) Up Right	Left Up Right	Left Up Right

Notes:

1. Positions are defined as viewed looking at transmission input shaft.
2. Up discharge position not available for S100C20C pumps with 1810 series end yokes.
3. Left discharge position not available for S100C20D pumps with 1810 series end yokes.

Discharge Positions

Ordering Information

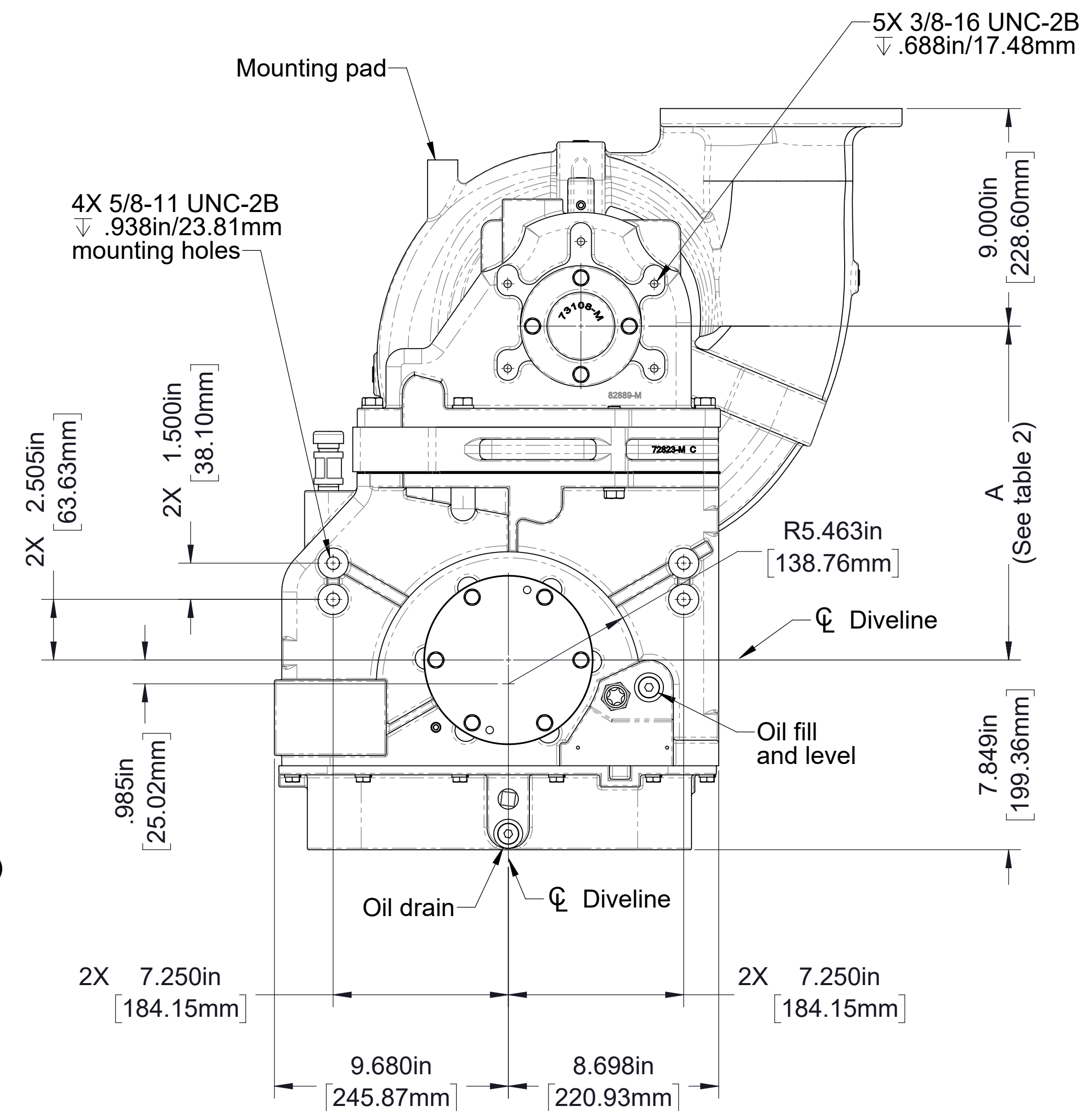
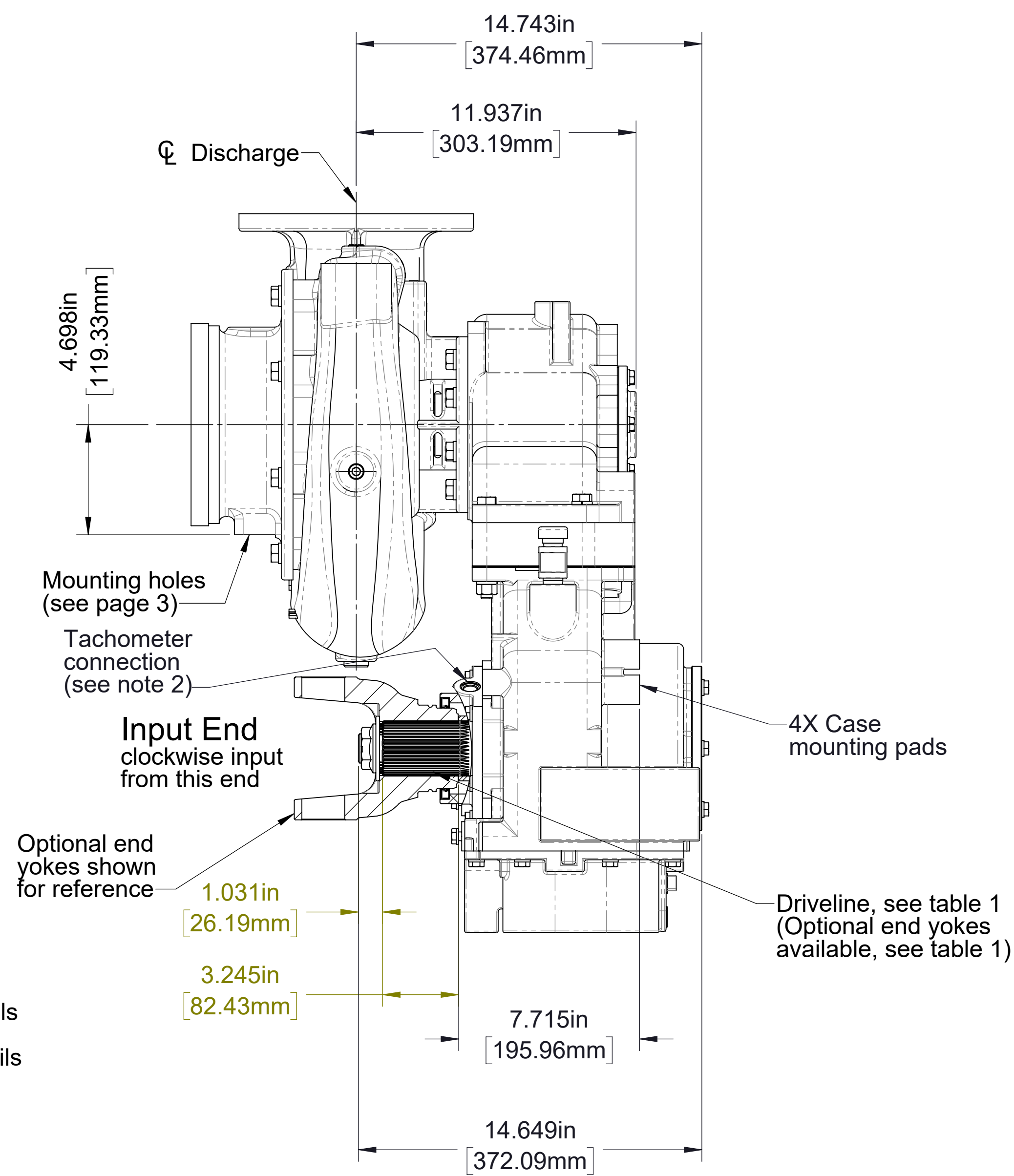
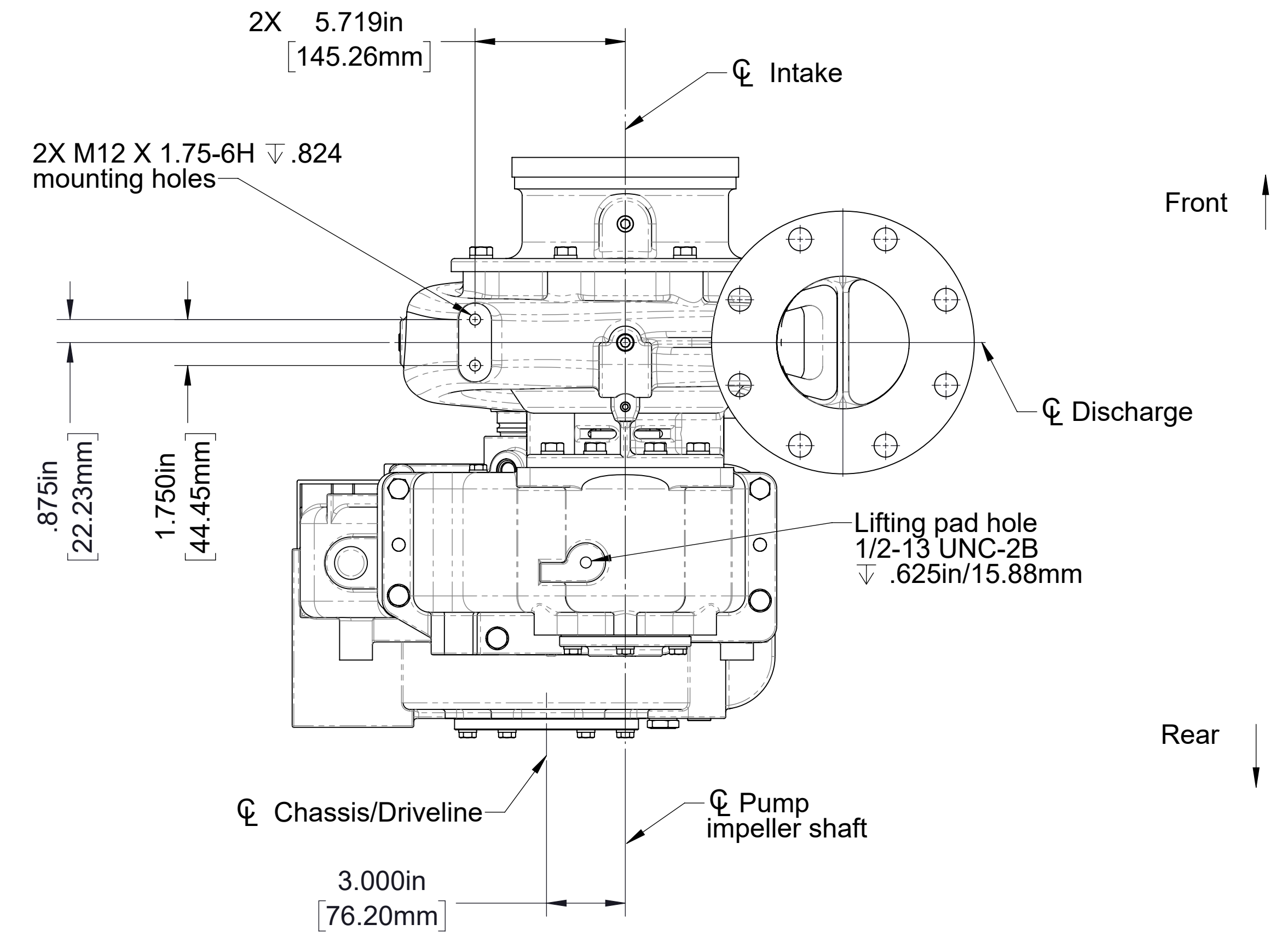
When Ordering furnish the following informaton:

1. Pump model: (see page 10).
2. Drive to driven ratio: (see page 10).
3. Pump mounting rear of transmission.
4. Discharge position: left, up or right.
5. Hydraulic adapter (see page 11).
6. Optional discharge fitting: (see pages 4 through 6).

Pump mounted on rear (output shaft side) of transmission
model S100C20 ordering information.

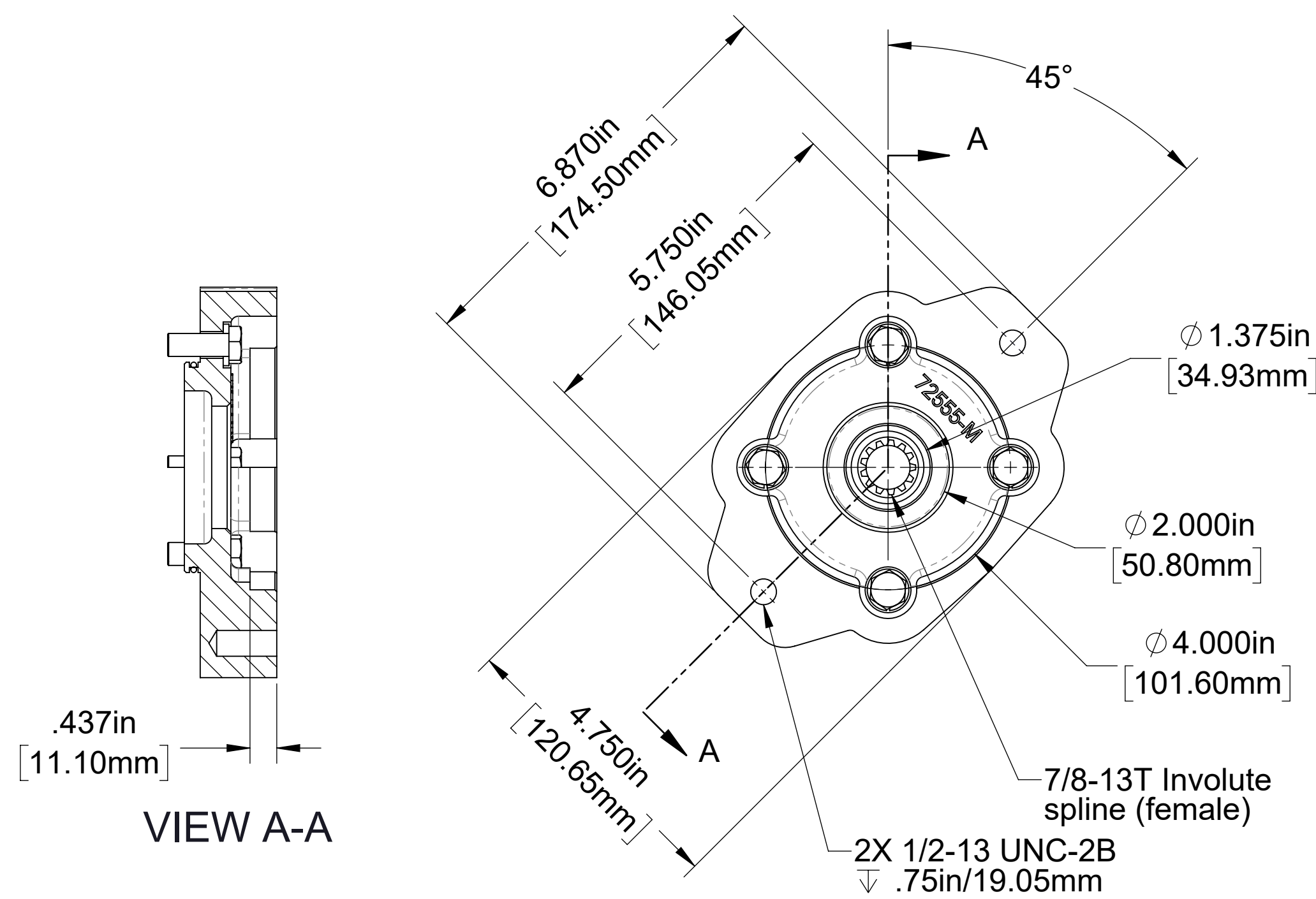
Driveline			Option End Yokes and Companion Flanges available from Waterous			Pump Models	
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				Part Number	Cross and Bearing Kit		
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			1650/1710	--	--	V 3619	
			1710	V 2837	V 2839	--	
			1810	V 2838	V 2840	--	
			SPL140	V 3388	V 3389	--	

Drive to Driven Ratio	Dimension A			
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2.27	13.811in 350.80mm	14.856in 377.34mm	16.920in 429.77mm	18.971in 481.86mm
2.46	14.042in 356.67mm	15.087in 383.21mm	17.154in 435.71mm	19.205in 487.81mm
2.68	13.746in 349.15mm	14.793in 375.74mm	16.685in 428.37mm	18.923in 480.64mm



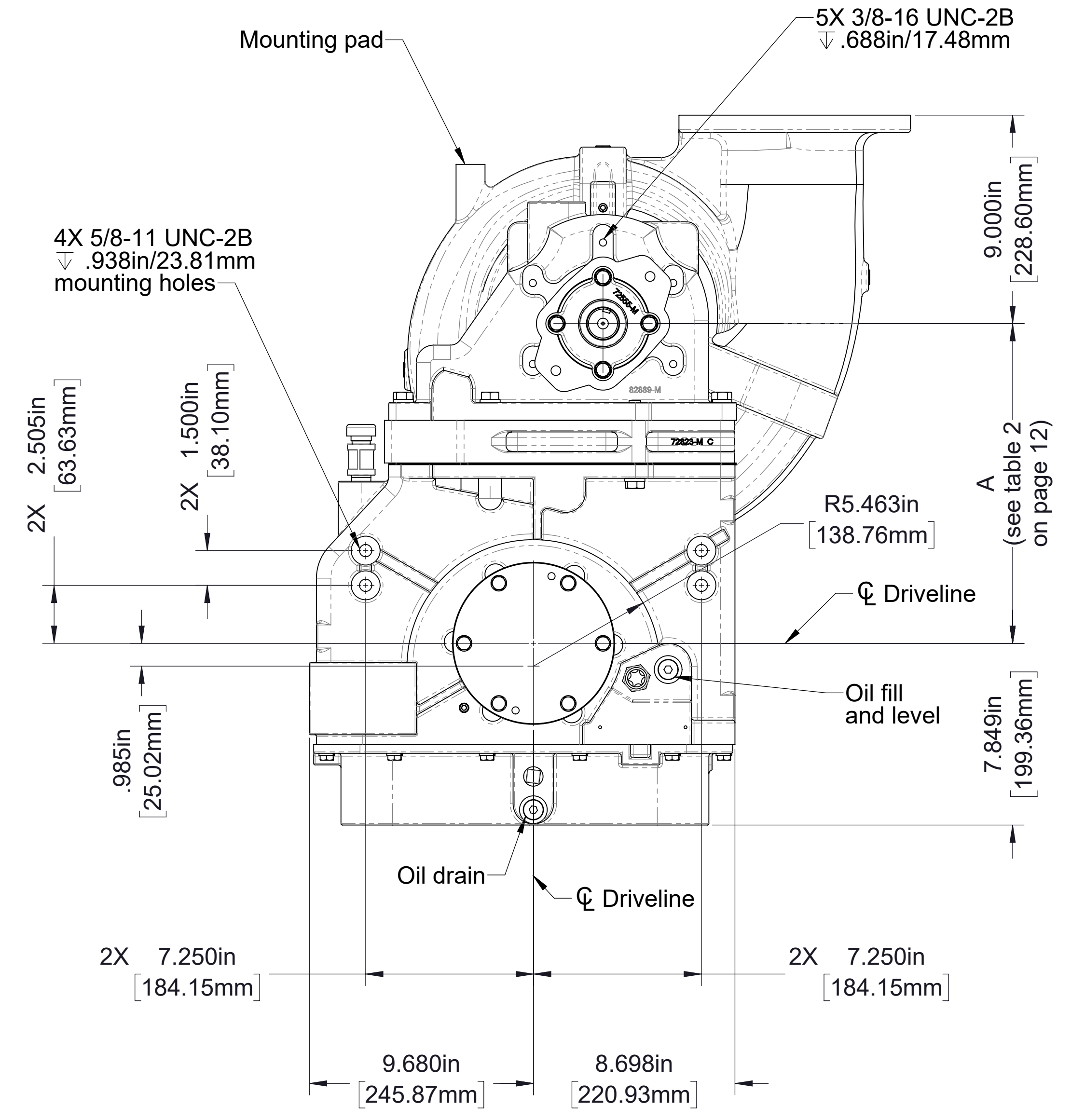
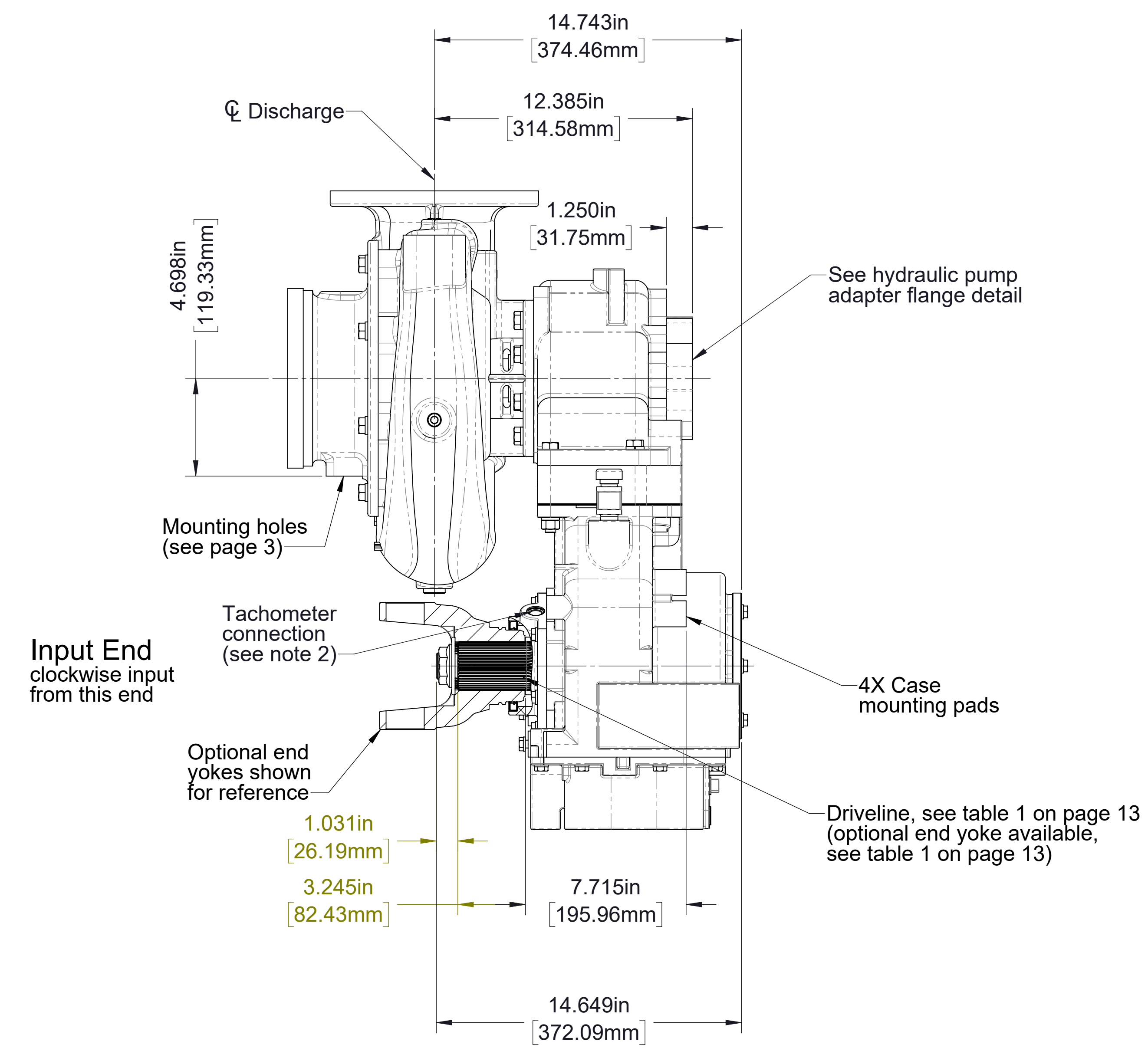
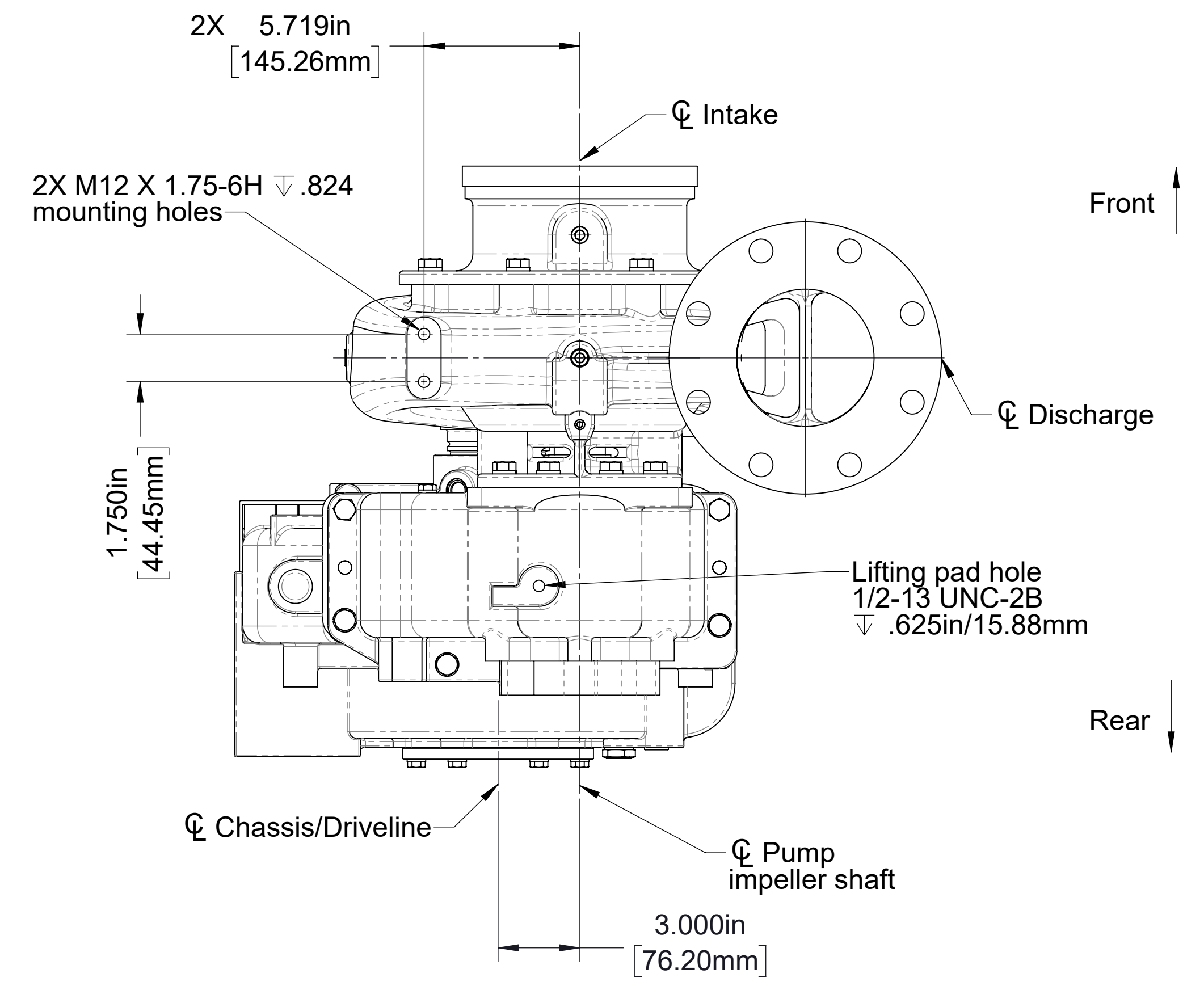
- Notes:
- See table 2 for available ratios.
 - See drawing DPL82649 for additional details on S100C20 pumps with eclipse ES CAFS and drawing DPL 82994 for additional details of C20 series transmission.

Model S100C20
Input shaft only
Pump mounted on front (input shaft side) of transmission
Clockwise input. model S100C20C, 2.27 ratio shown, blank discharge, up discharge position shown

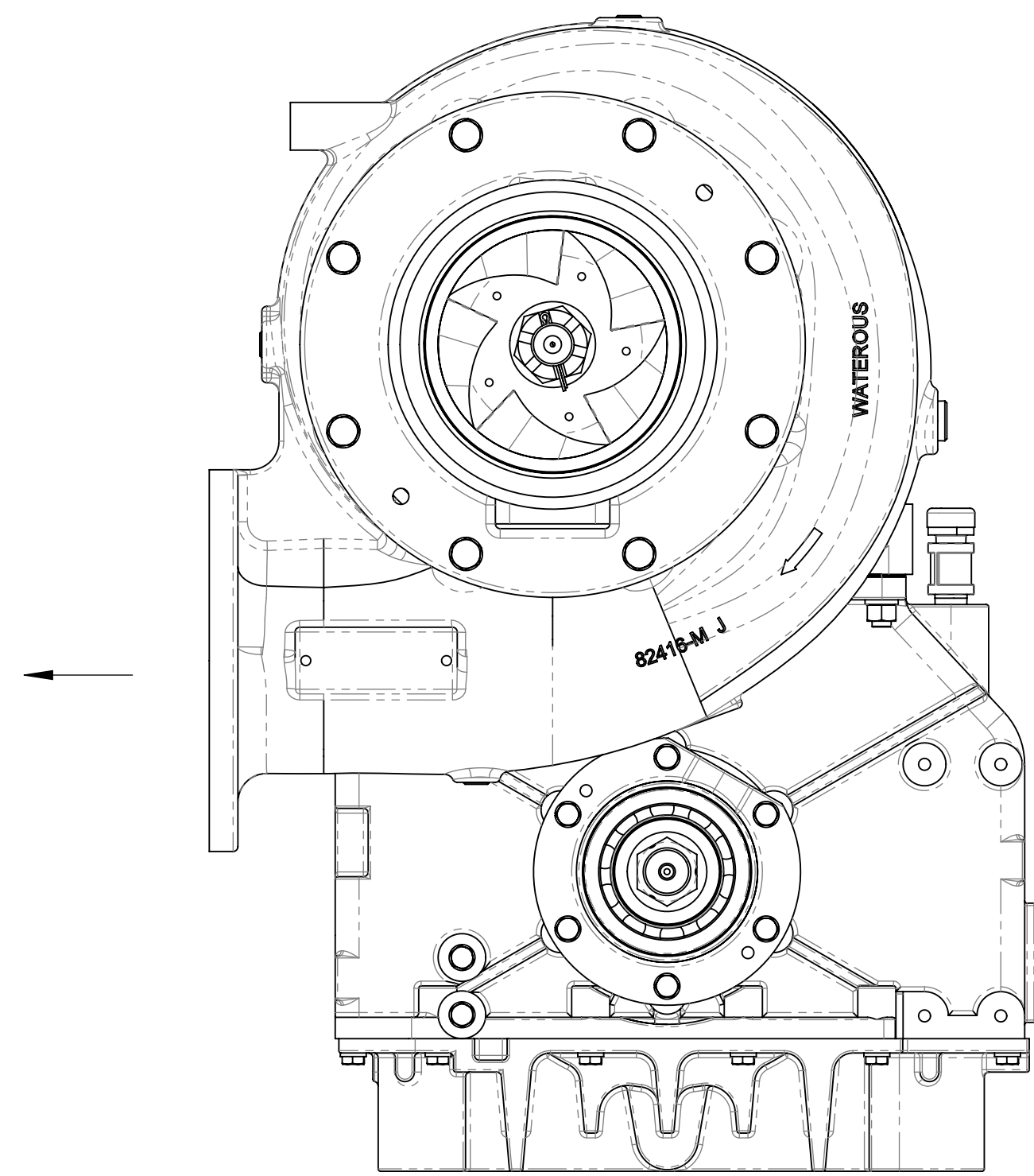


Hydraulic Pump Adapter Flange Detail
 Used for SAE J744 class B 2-bolt
 Hydraulic pump with male
 7/8-13T 16/32 pitch involute spline

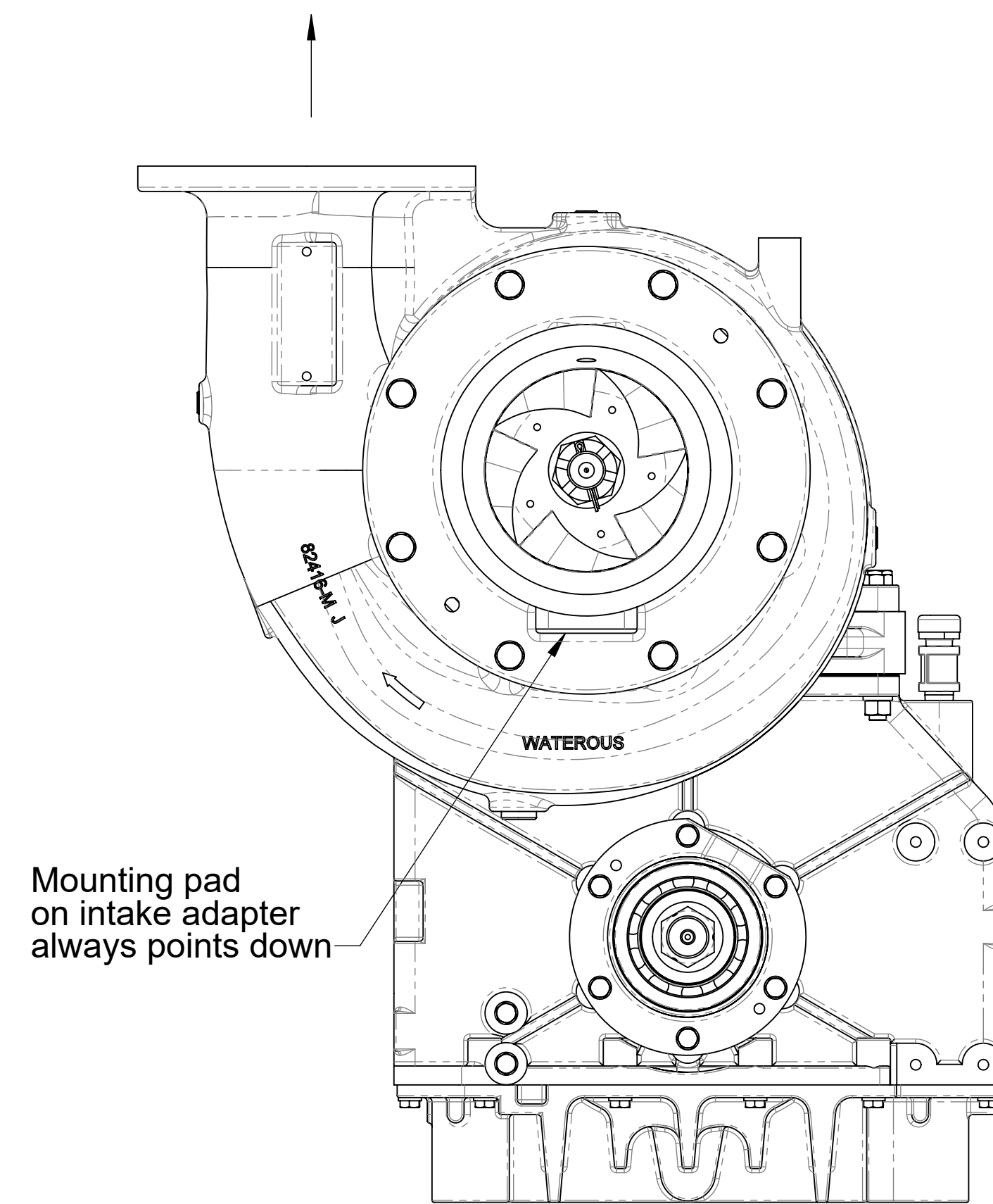
Notes:
 1. See table 2 on page 13 for available ratios.
 2. See drawing DPL82994 for additional details of C20 series transmissions.



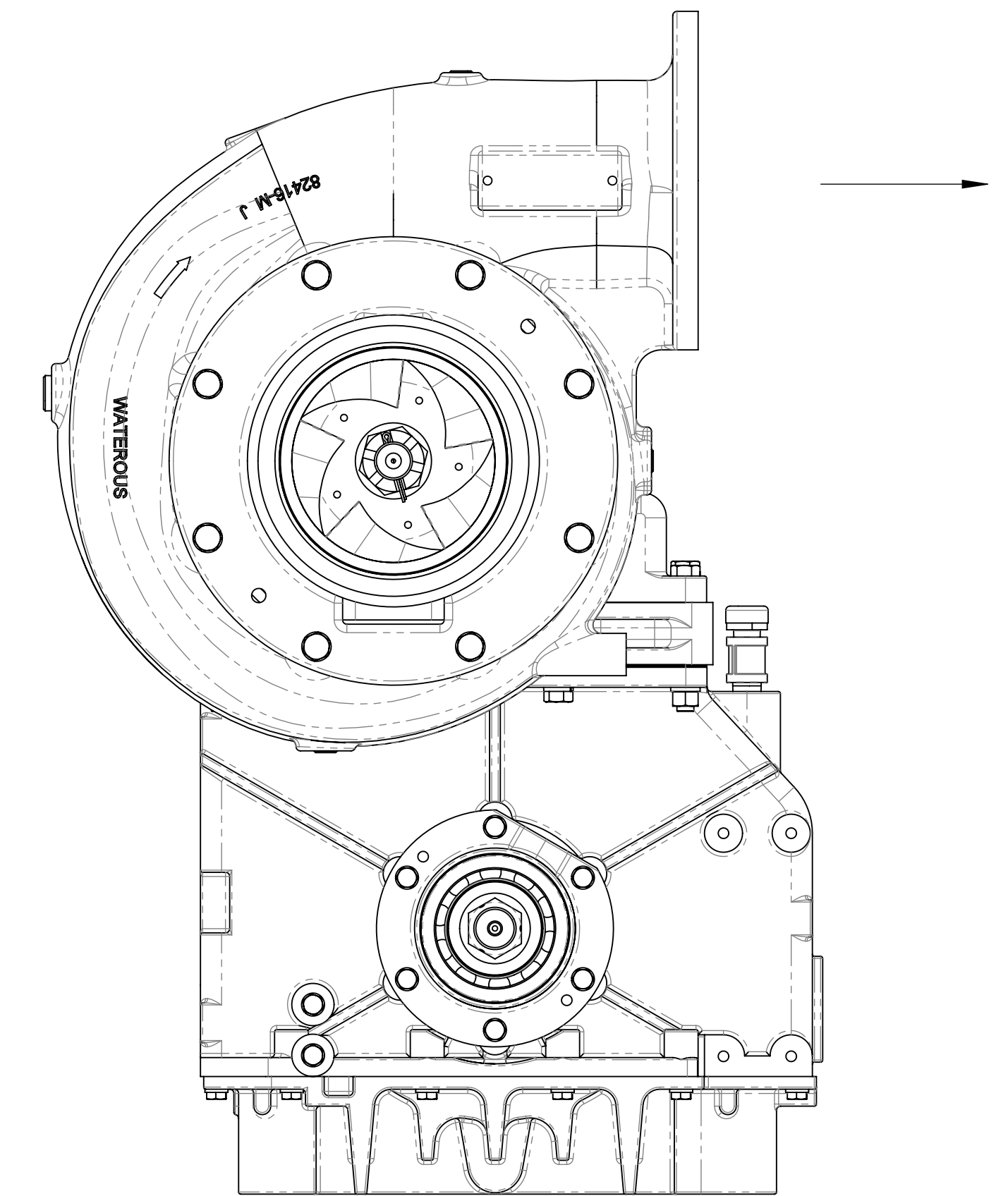
Model S100C20
 Input shaft only, pump mounted on front (input shaft side) of transmission
 Hydraulic pump mounting provision on rear (output shaft side) of transmission.
 Clockwise input, model S100C202C, 2.27 ratio shown, flank discharge, up discharge position shown



Left
(Optional discharge manifold not available)



Up



Right
(Optional discharge manifold not available)

Available discharge positions by pump model:

S100C20C	S100C20D	S100C20E	S100C20F
Up (2) Right	Left (3) Up Right	Left Up Right	Left Up Right

Notes:

1. Positions are defined as viewed looking at transmission input shaft.
2. Up discharge position not available for S100C20C pumps with 1810 series end yokes.
3. Left discharge position not available for S100C20D pumps with 1810 series end yokes.

Discharge Positions

Ordering Information

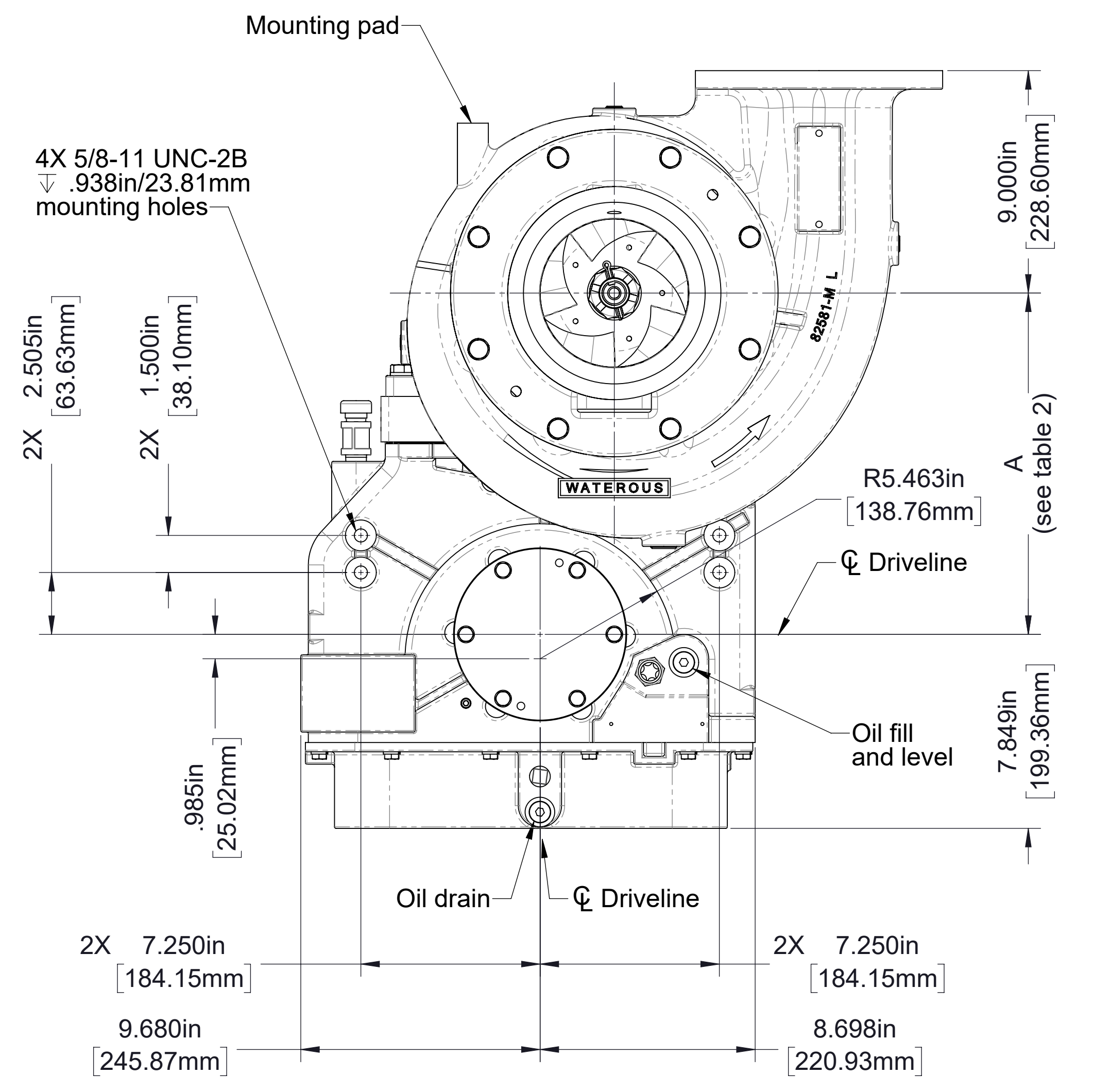
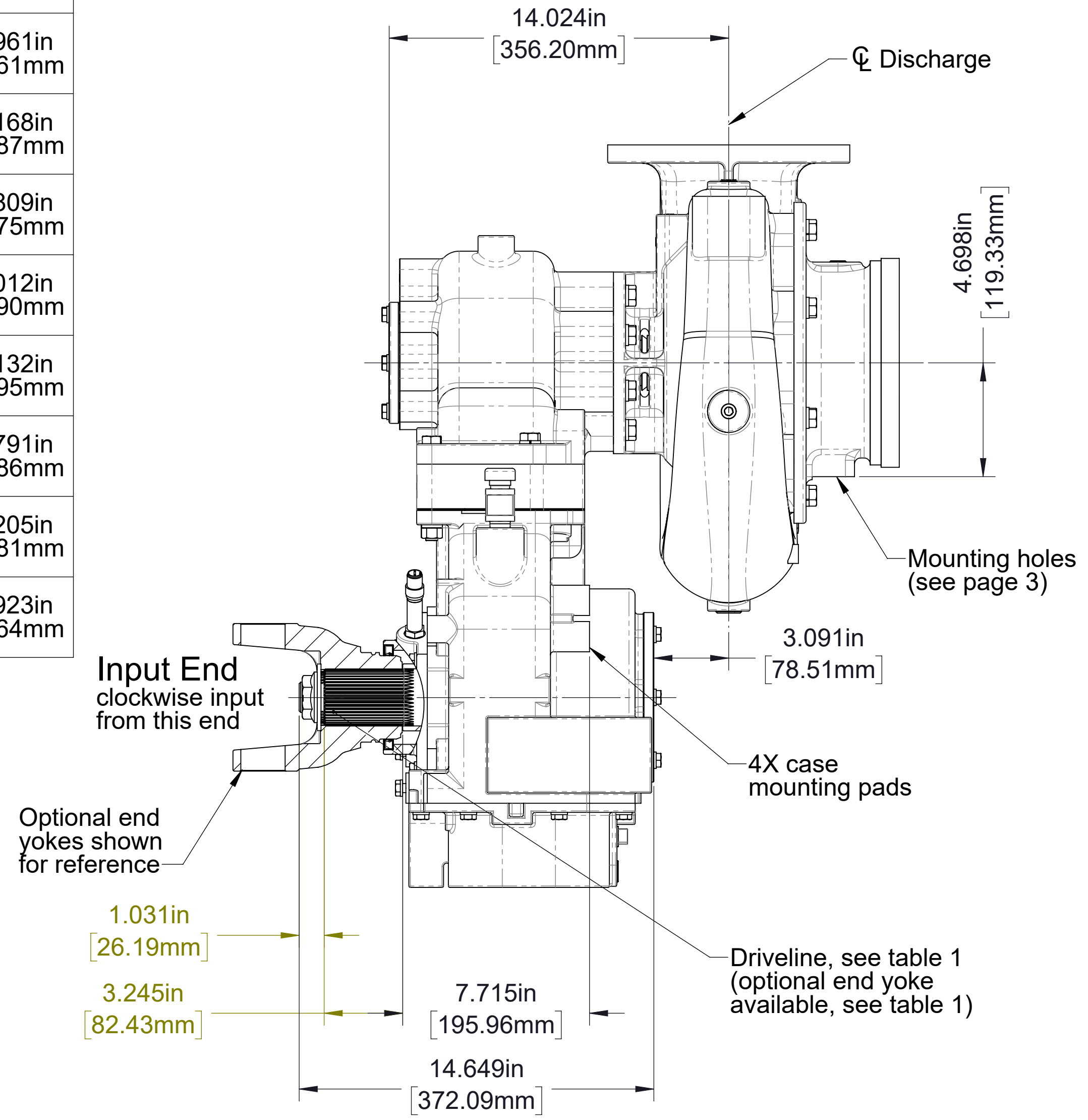
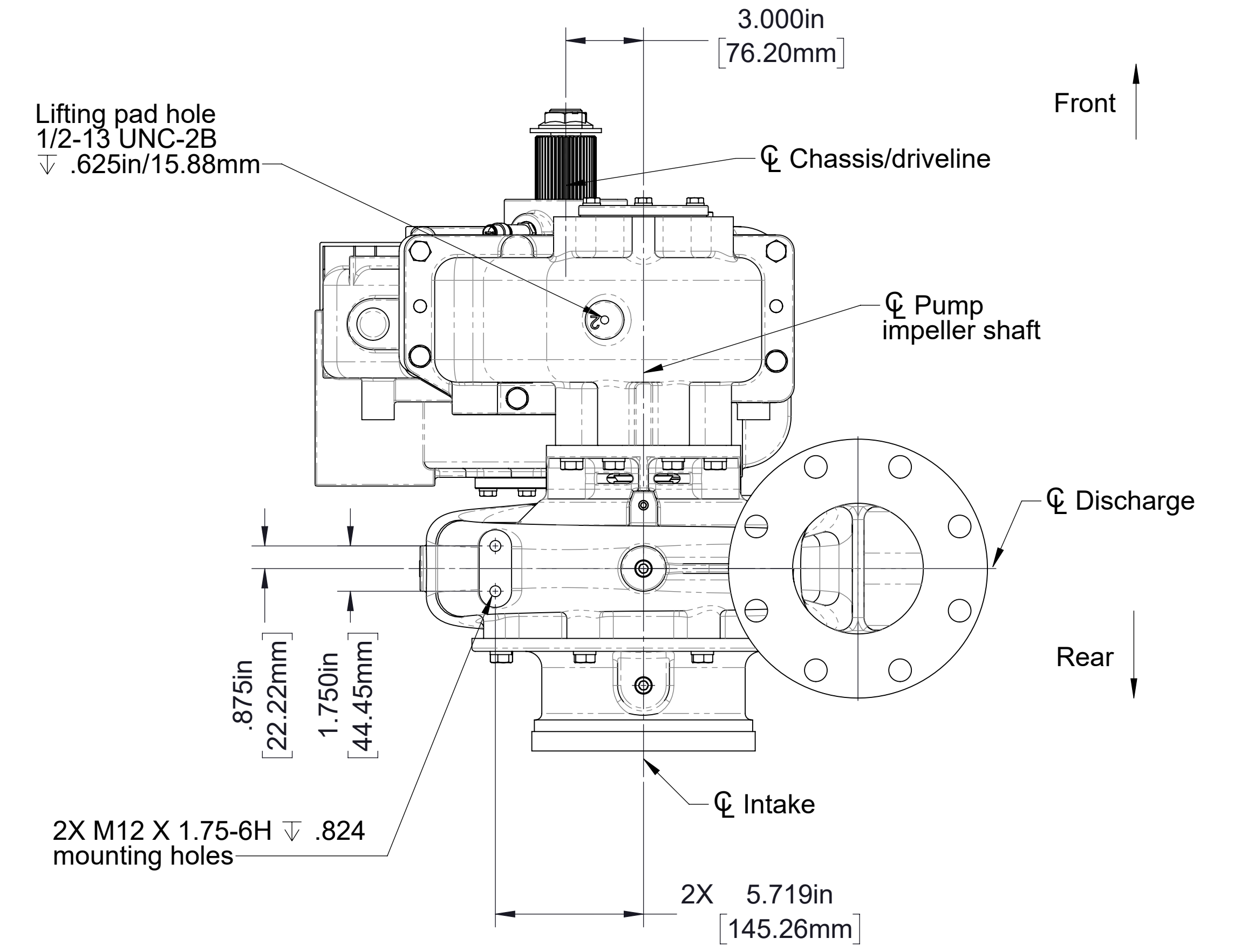
When Ordering furnish the following informaton:

1. Pump model: (see page 13).
2. Drive to driven ratio: (see page 13).
3. Pump mounting: front of transmission.
4. Discharge position: left, up or right.
5. Hydraulic adapter (see page 14).
6. Optional discharge fitting: (see pages 4 through 6).

Pump mounted on front (input shaft side) of transmission
model S100C20 ordering information.

Driveline			Optional End Yokes and Companion Flanges available from Waterous				Pump Models
Type	Size	Spline	Spicer Series	Yoke		Companion Flange	
Extra Heavy Duty	2.35 Inch	2.350-46T Involute	1480/1610	--	--	V 3719	S100C22B, S100C22C, S100C22D, S100C22E, S100C22F
			1650/1710	--	--	V 3619	
			1710	V 2837	V 2839	--	
			1810	V 2838	V 2840	--	
			SPL140	V 3388	V 3389	--	

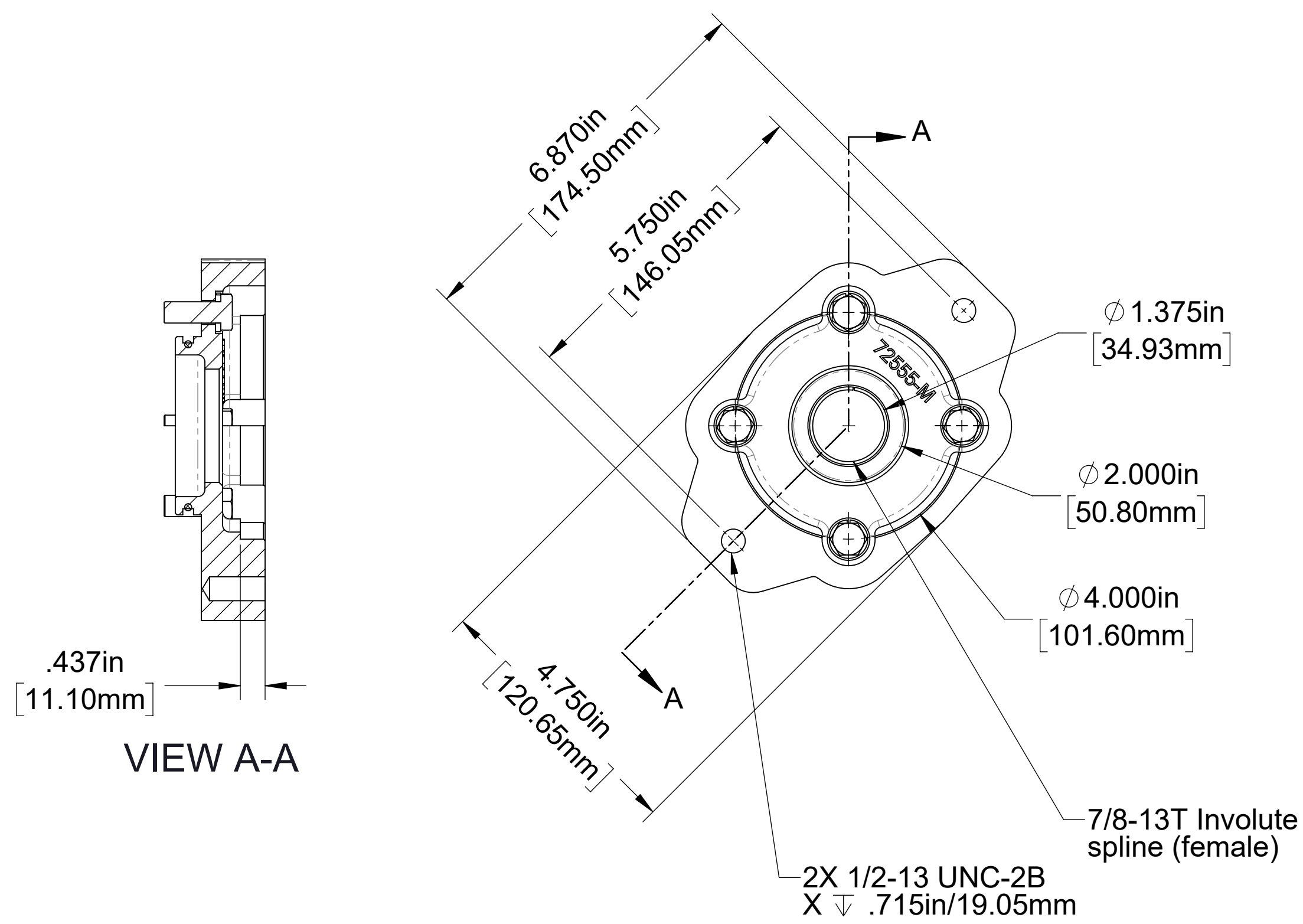
Drive to Driven Ratio	Dimension A				
	C20B	C20C	C20D	C20E	C20F
1.27(3)	N/A	N/A	N/A	N/A	N/A
1.41	11.840in 300.74mm	13.899in 353.03mm	14.931in 379.25mm	16.971in 431.06mm	19.002in 482.65mm
1.48	12.326in 313.08mm	13.878in 352.50mm	14.907in 378.64mm	16.951in 430.56mm	16.981in 479.07mm
1.58	12.205in 310.01mm	13.756in 349.40mm	14.788in 375.62mm	16.830in 427.48mm	18.861in 479.07mm
1.69	12.290in 312.17mm	13.839in 35.151mm	14.876in 377.85mm	16.923in 429.84mm	18.961in 481.61mm
1.79	11.958in 303.73mm	14.045in 356.74mm	15.072in 382.83mm	17.127in 435.03mm	19.168in 486.87mm
1.88	12.129in 308.08mm	13.690in 347.73mm	14.717in 373.81mm	16.773in 426.03mm	18.809in 477.75mm
1.97	12.306in 312.57mm	13.870in 352.30mm	14.912in 378.76mm	16.970in 431.04mm	19.012in 482.90mm
2.03	11.896in 302.16mm	13.870in 352.30mm	15.028in 381.71mm	17.086in 433.98mm	19.132in 485.95mm
2.27	12.240in 310.90mm	13.811in 350.80mm	14.856in 377.34mm	16.920in 429.77mm	18.791in 481.86mm
2.46	11.941in 303.30mm	14.042in 356.67mm	15.087in 383.21mm	17.154in 435.71mm	19.205in 487.81mm
2.68	12.169in 309.09mm	13.746in 349.15mm	14.793in 375.74mm	16.865in 428.37mm	18.923in 480.64mm



- Notes:
1. See table 2 for available ratios.
 2. See drawing DPL82994 for additional details of C20 series transmission.
 3. Not available because of interference between the chain and shift collar.

Model S100C20

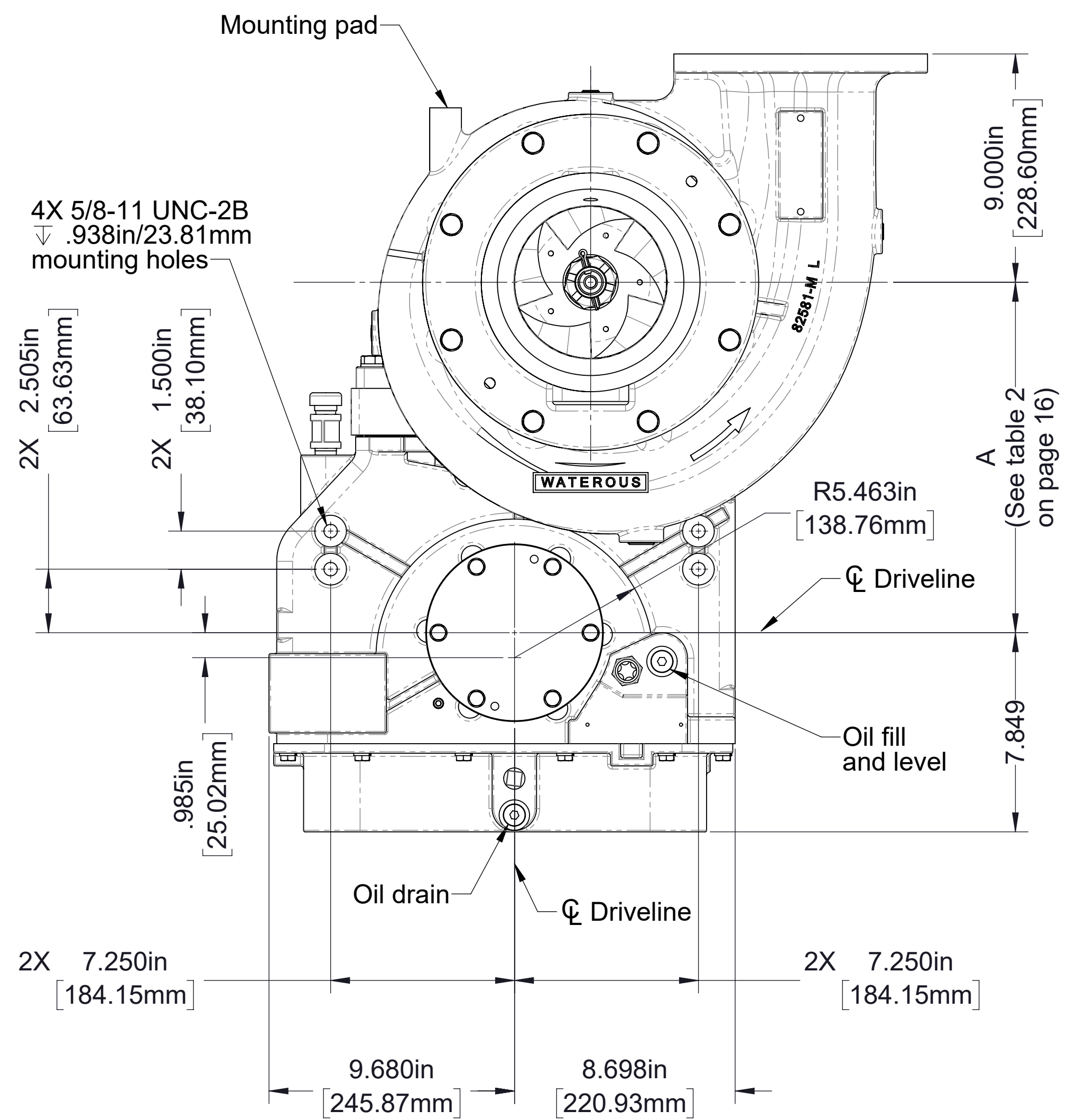
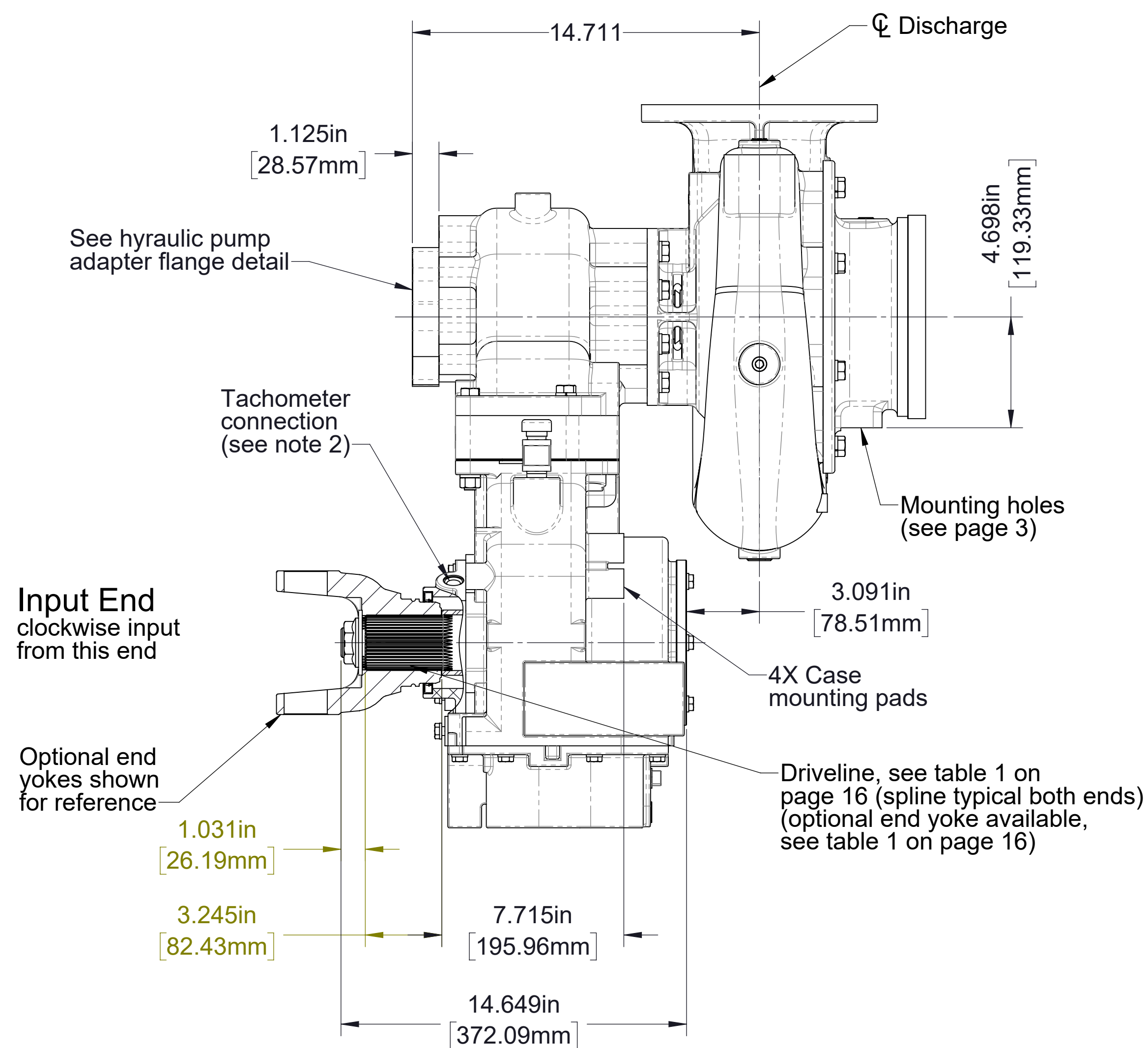
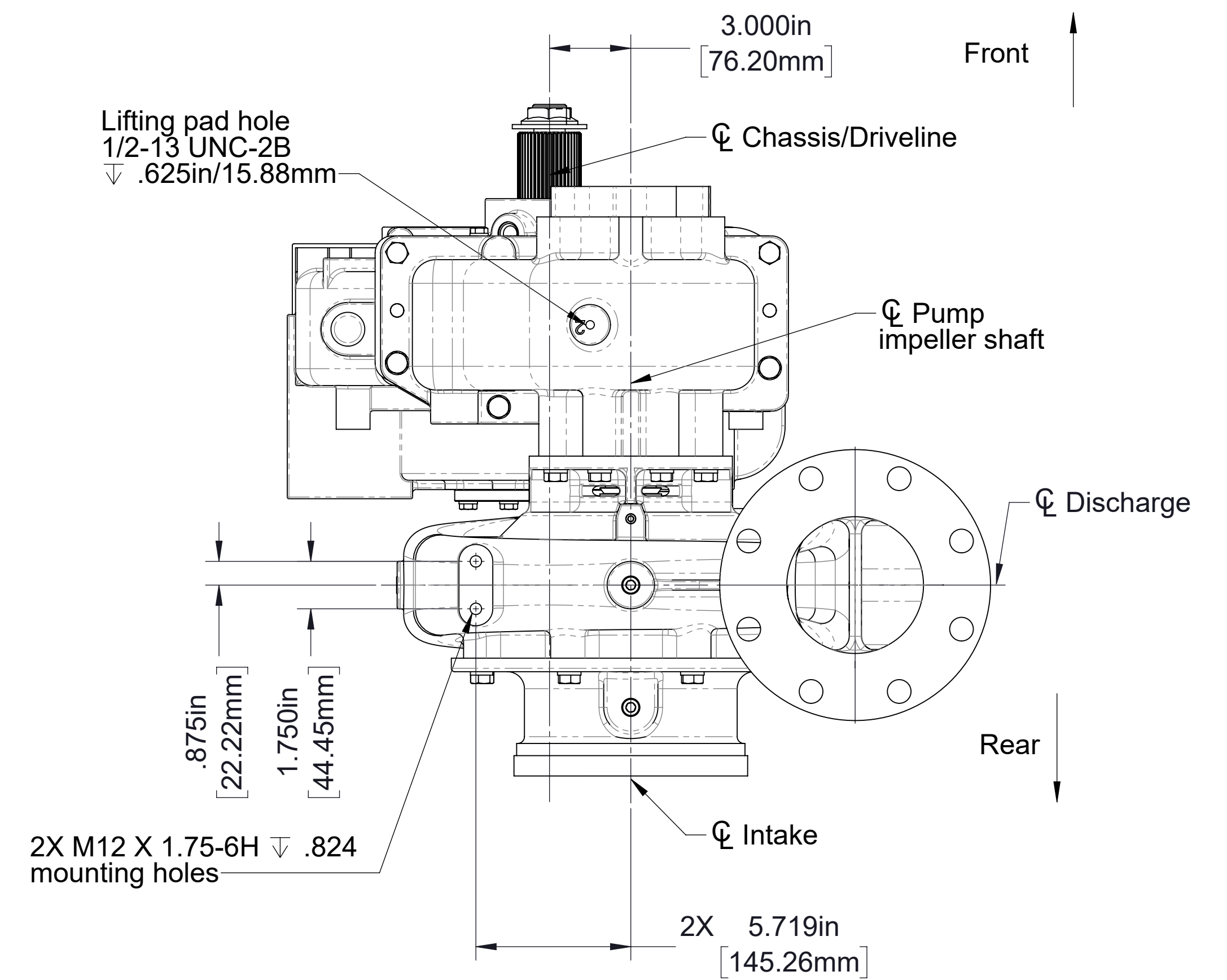
Input shaft only, pump mounted on rear (output shaft side) of transmission clockwise input, model S100C20C, 2.27 ratio shown blank discharge, up discharge position shown



Hydraulic Pump Adapter Flange Detail

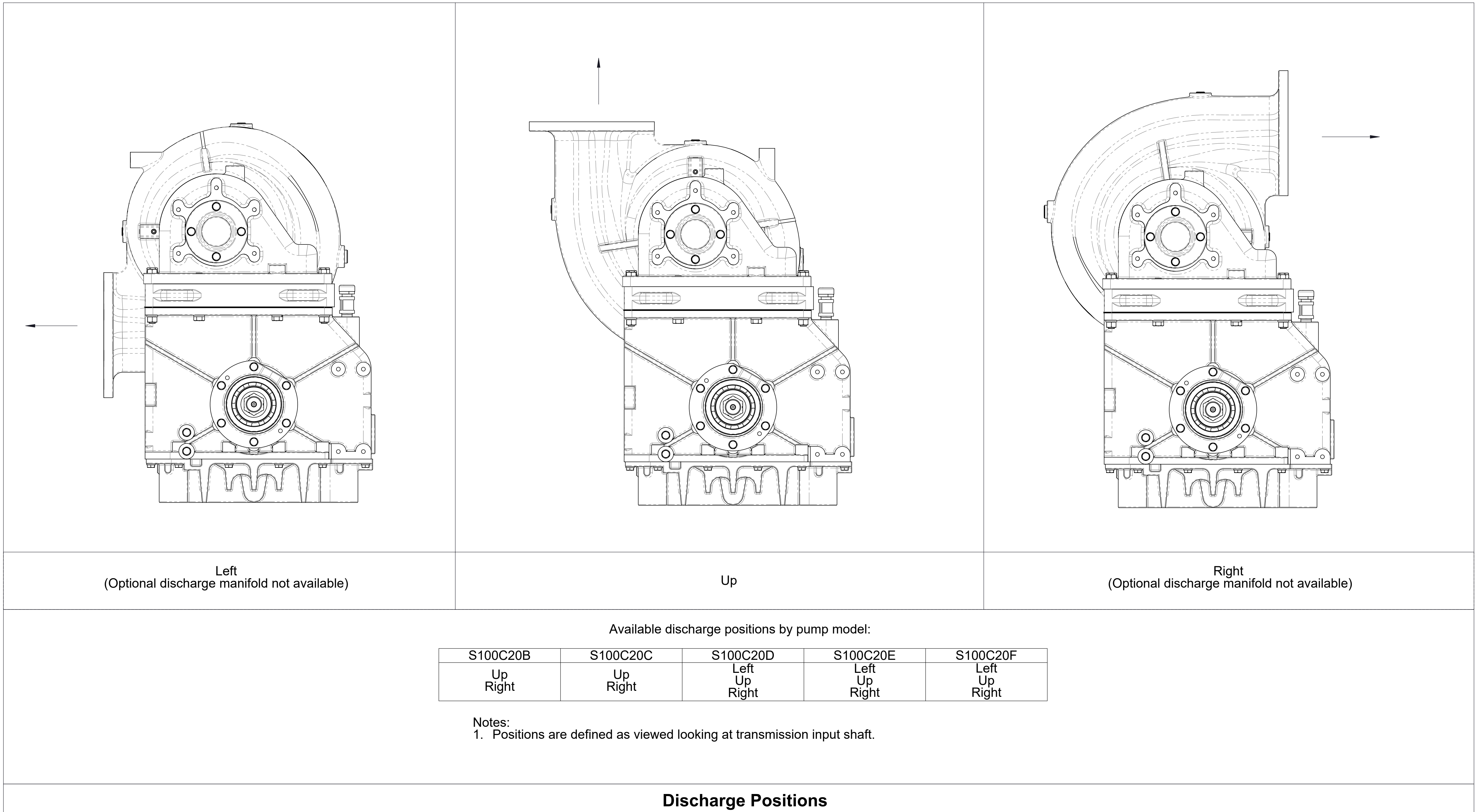
Used for SAE J744 class B 2-bolt
Hydraulic pump with male
7/8-13T 16/32 pitch involute spline

- Notes:
1. See table 2 on page for available ratios.
2. See drawing DPL82994 for additional details of C20 series transmission.



Model S100C20

Input shaft only
Pump mounted on rear (output shaft side) of transmission
Hydraulic pump mounting provision on front (input shaft side) of transmission
Clockwise input, model S100C20C, 2.27 ratio shown
blank discharge, up discharge position

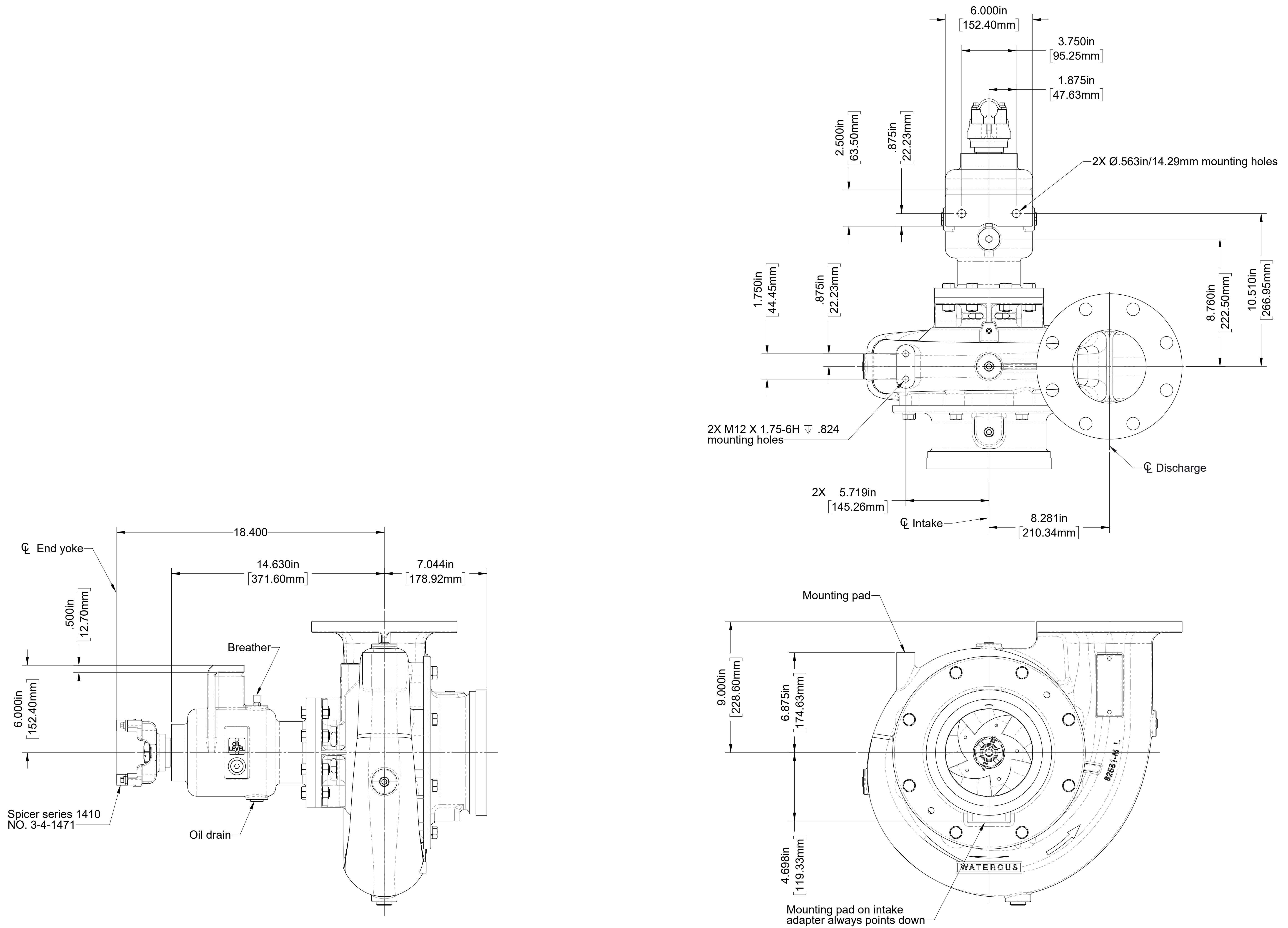


Ordering Information

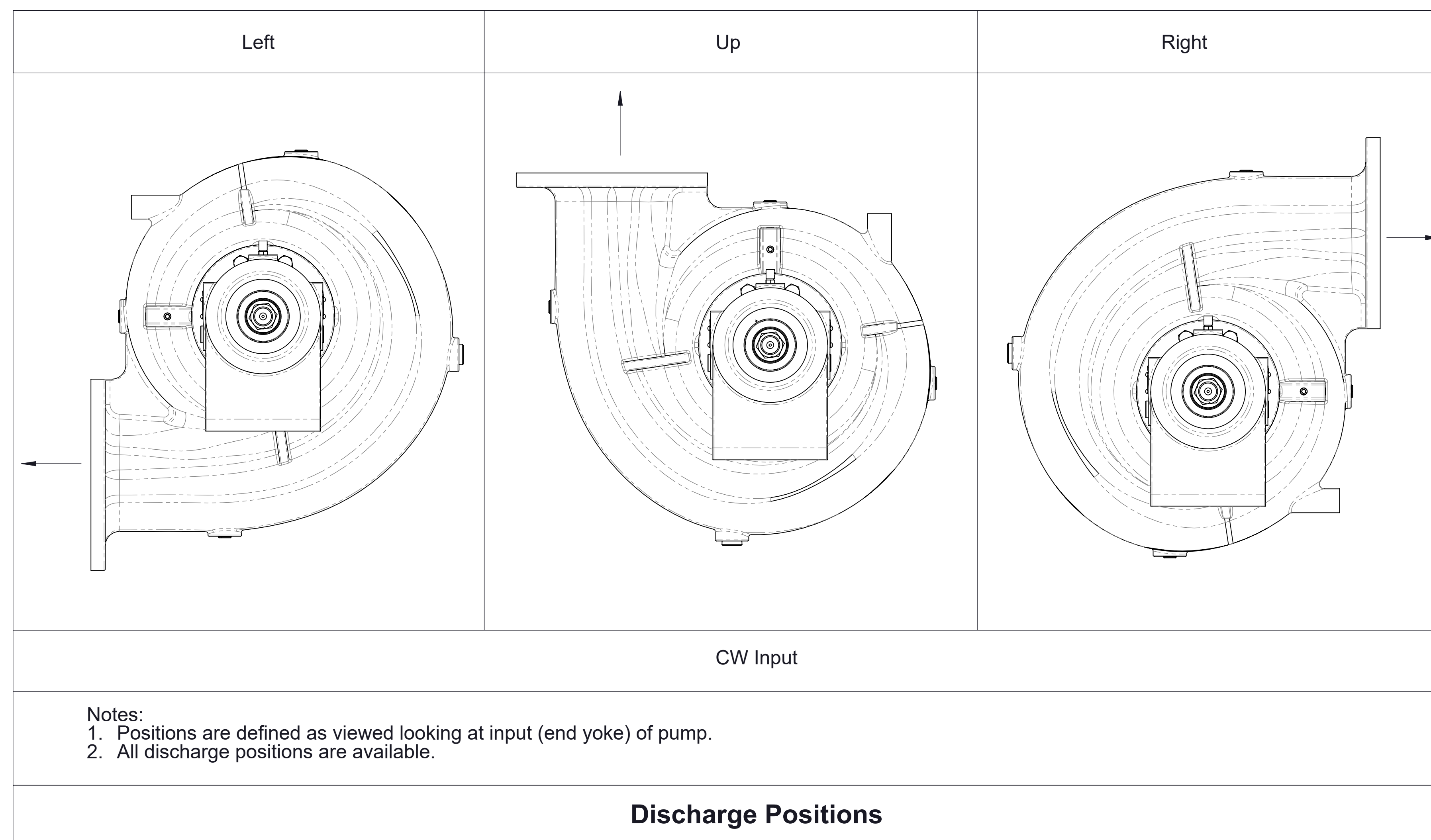
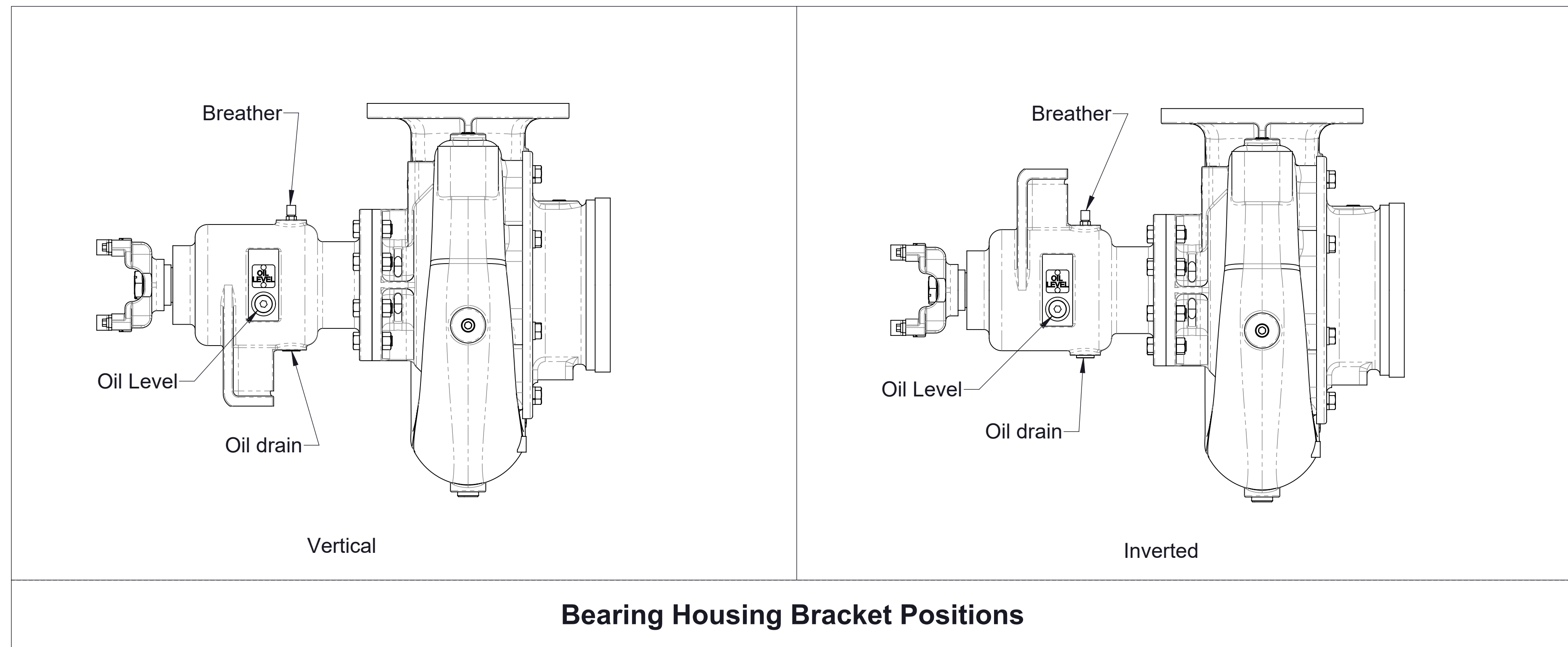
When ordering furnish the following informaton:

1. Pump model: (see page 16).
2. Drive to driven ratio: (see page 16).
3. Pump mounting: rear of transmission.
4. Discharge position: left, up or right.
5. Hydraulic adapter (see page 17).
6. Optional discharge fitting: (see pages 4 through 6).

Pump mounted on rear (output shaft side) of transmission
model S100C20 ordering information



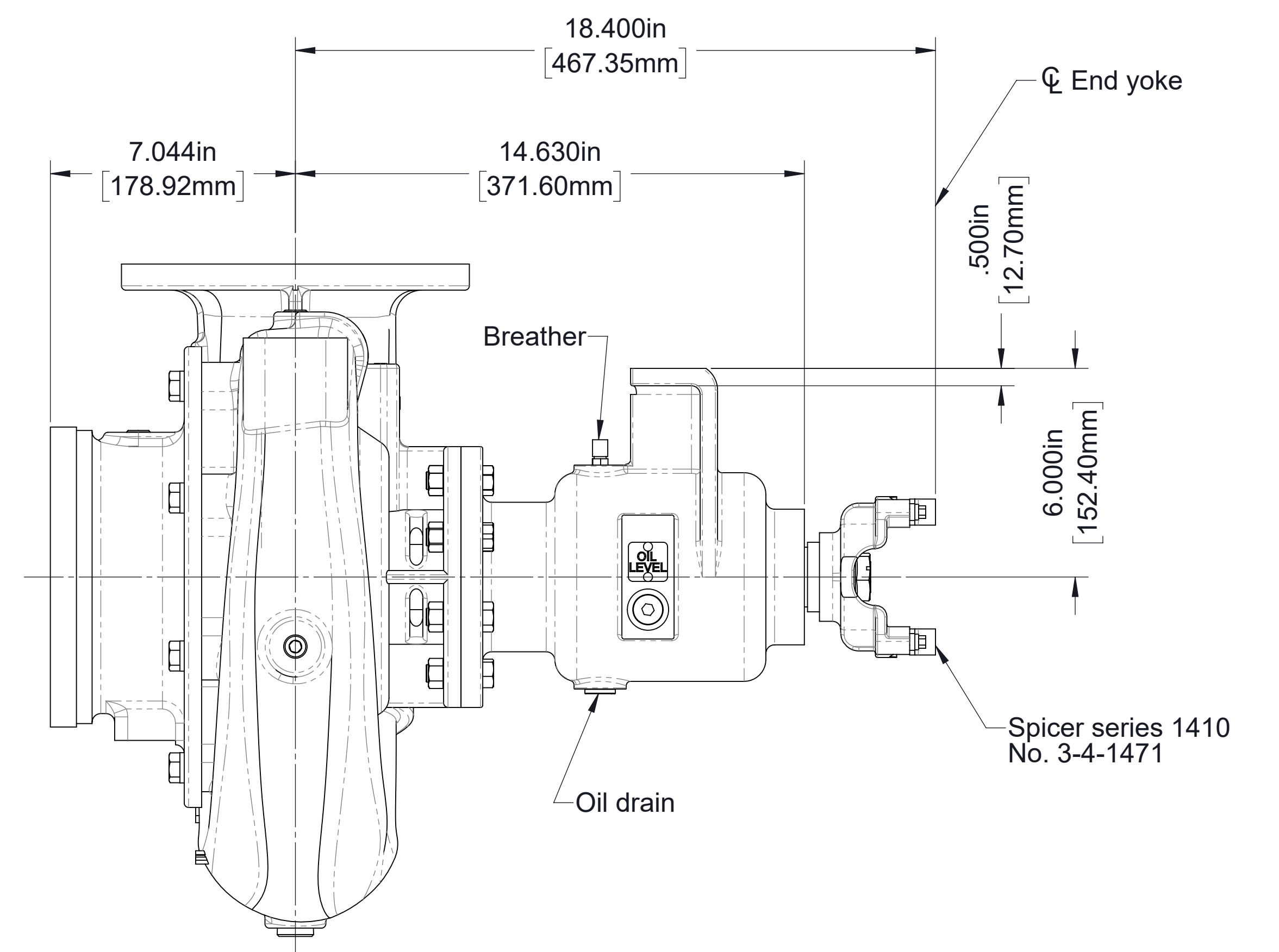
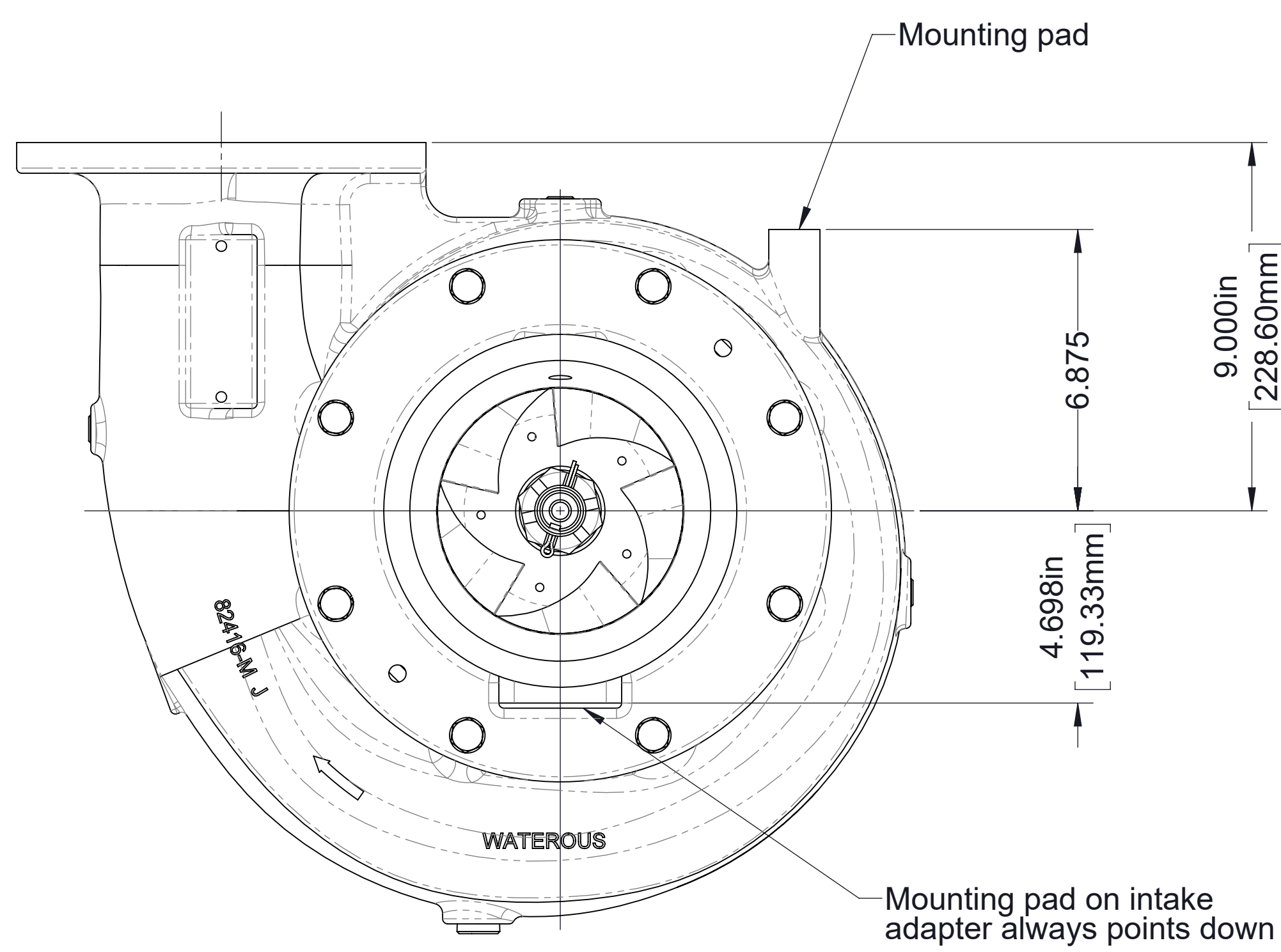
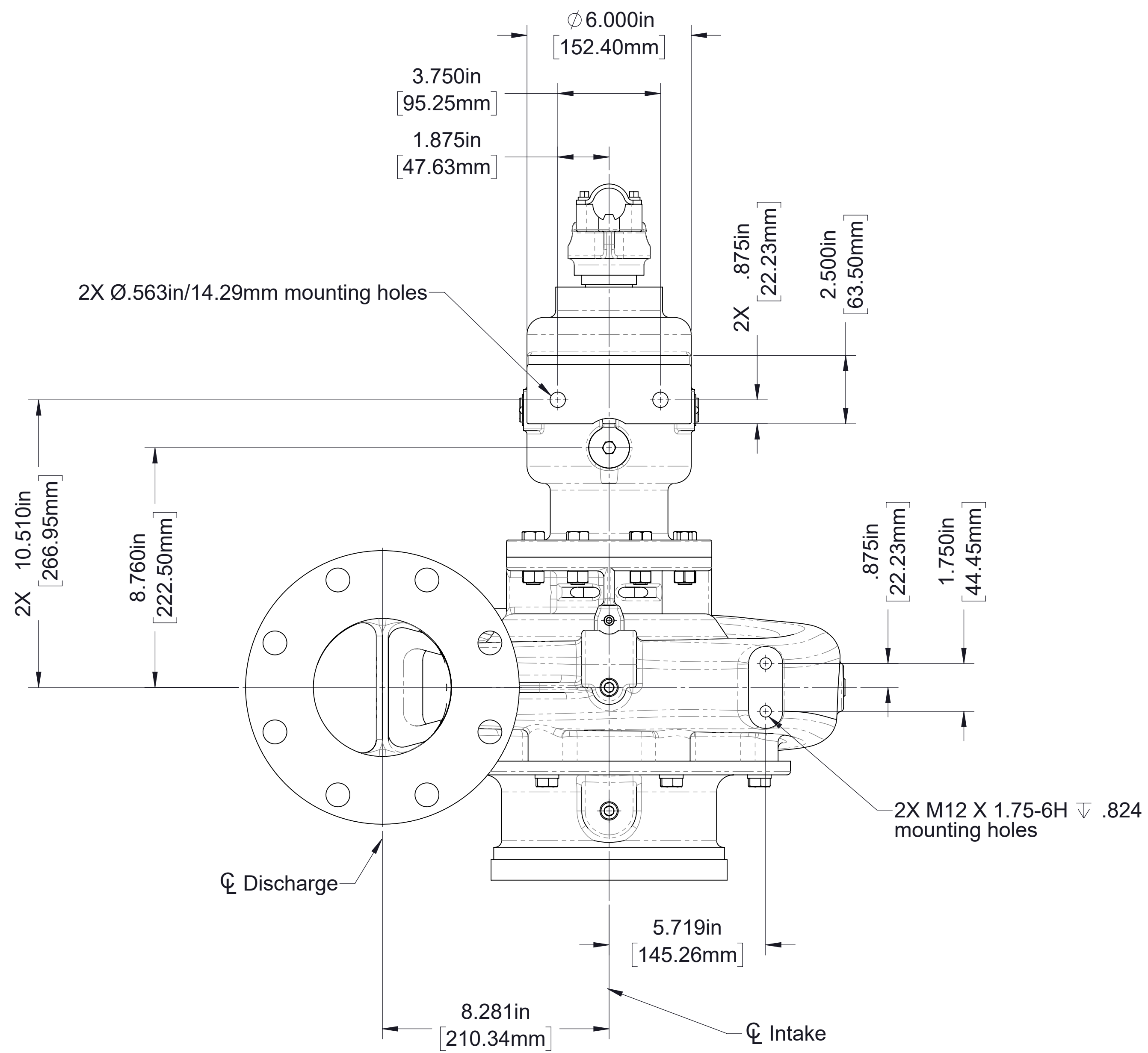
Model S100D
 CW Input
 Blank discharge, up discharge position shown
 Inverted bearing housing bracket position shown



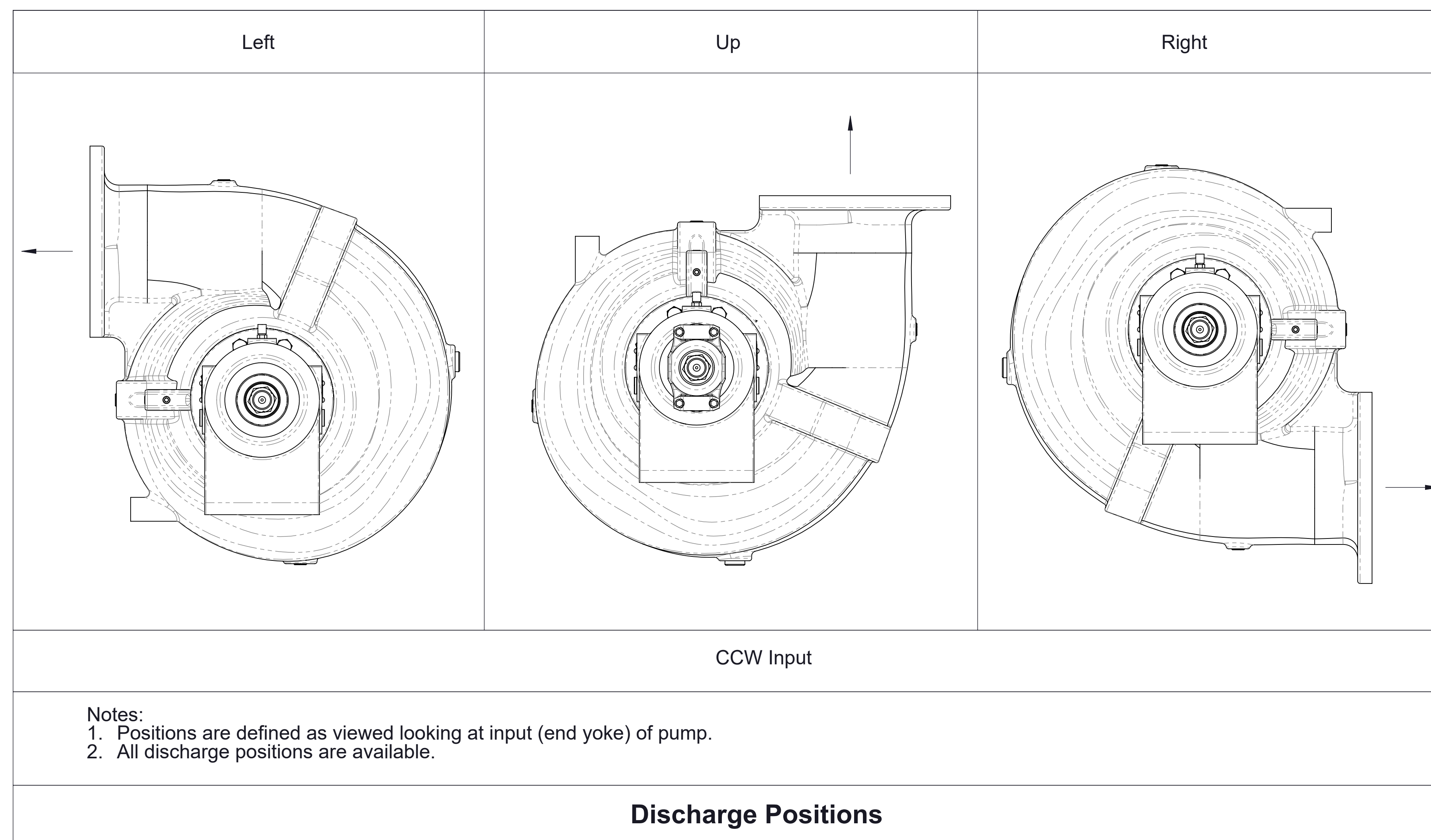
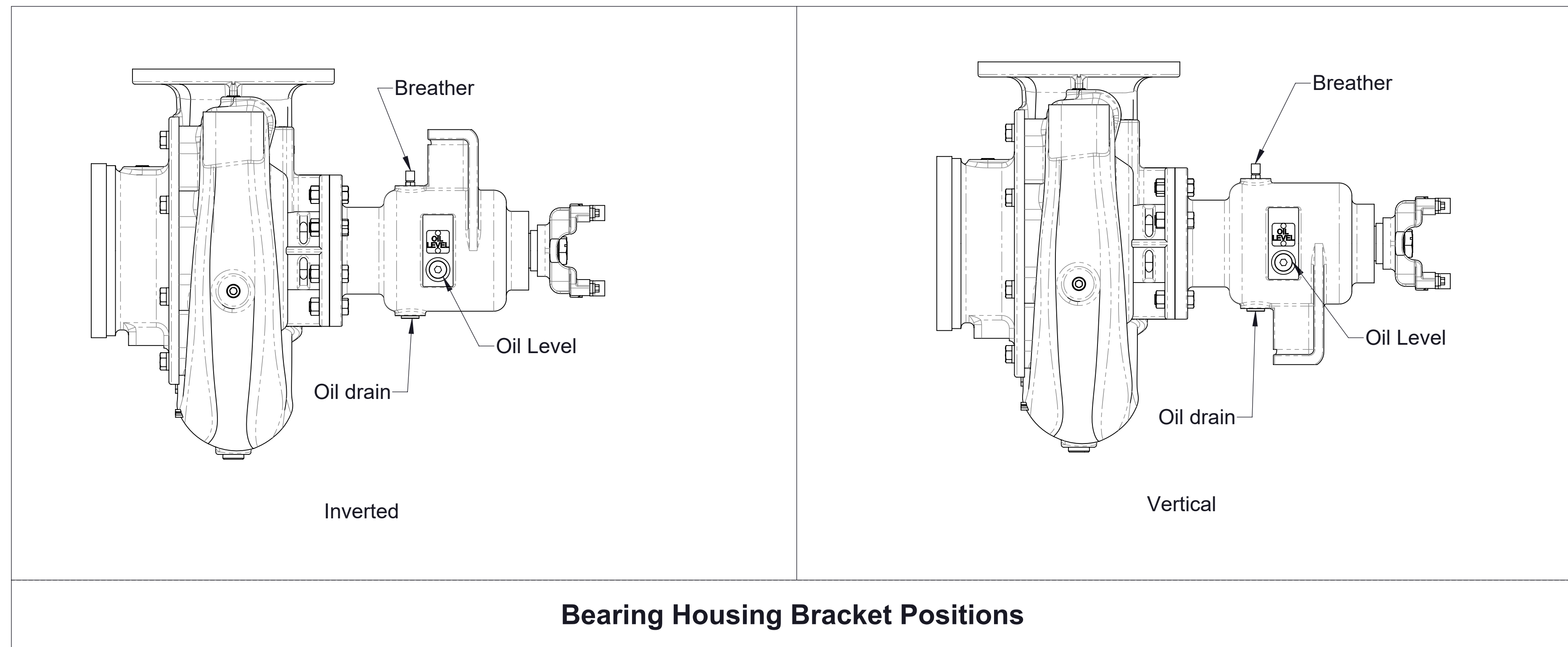
Ordering information

When ordering furnish the following information:

1. Pump model: S100D.
2. Input rotation: Clockwise
3. Bearing housing bracket position: vertical or inverted.
4. Discharge position: left, up or right.
5. Optional discharge fitting: (see pages 4 through 6).



Model S100D
 CCW input
 Blank discharge, up discharge position shown
 Inverted bearing housing bracket position shown

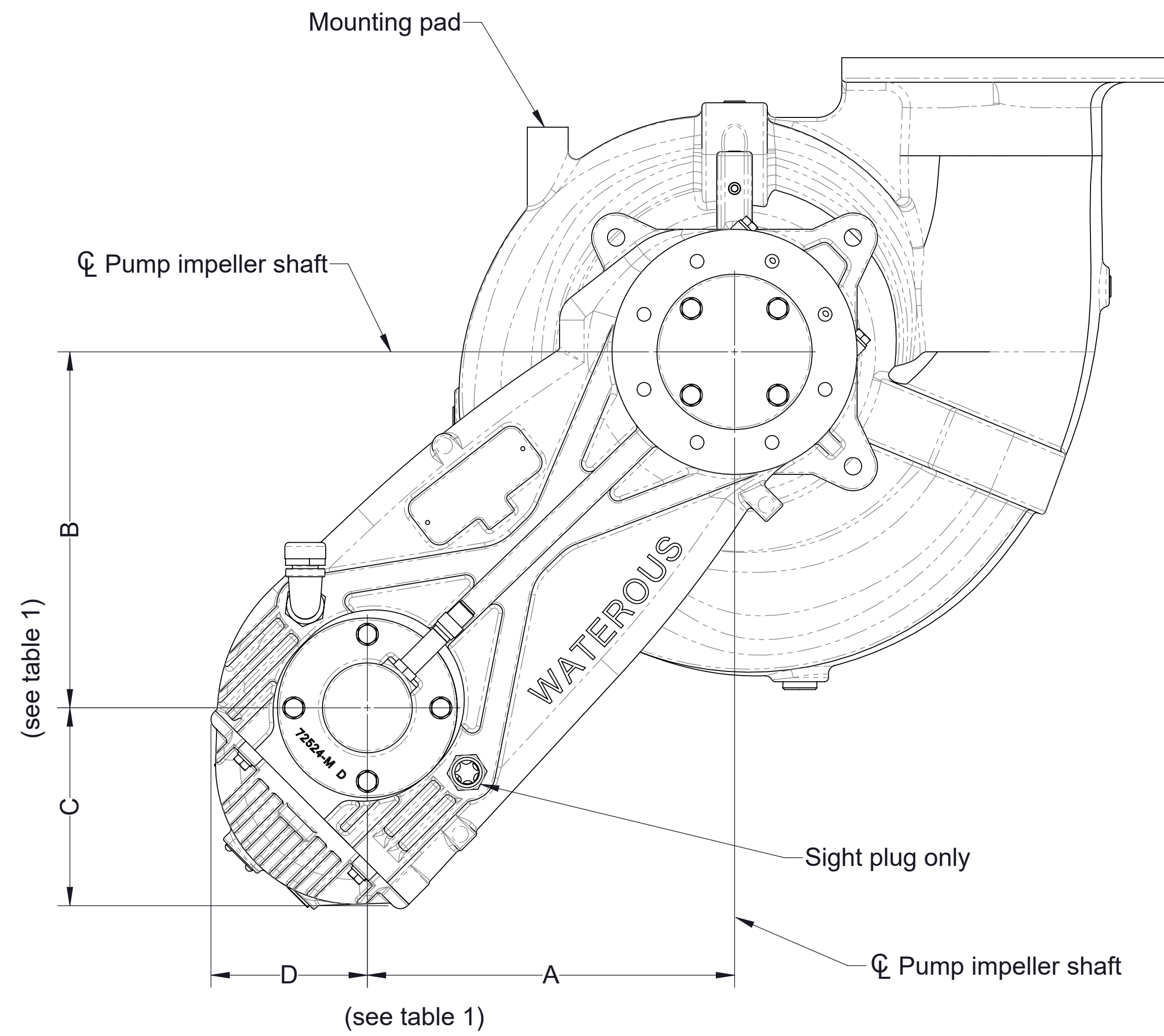
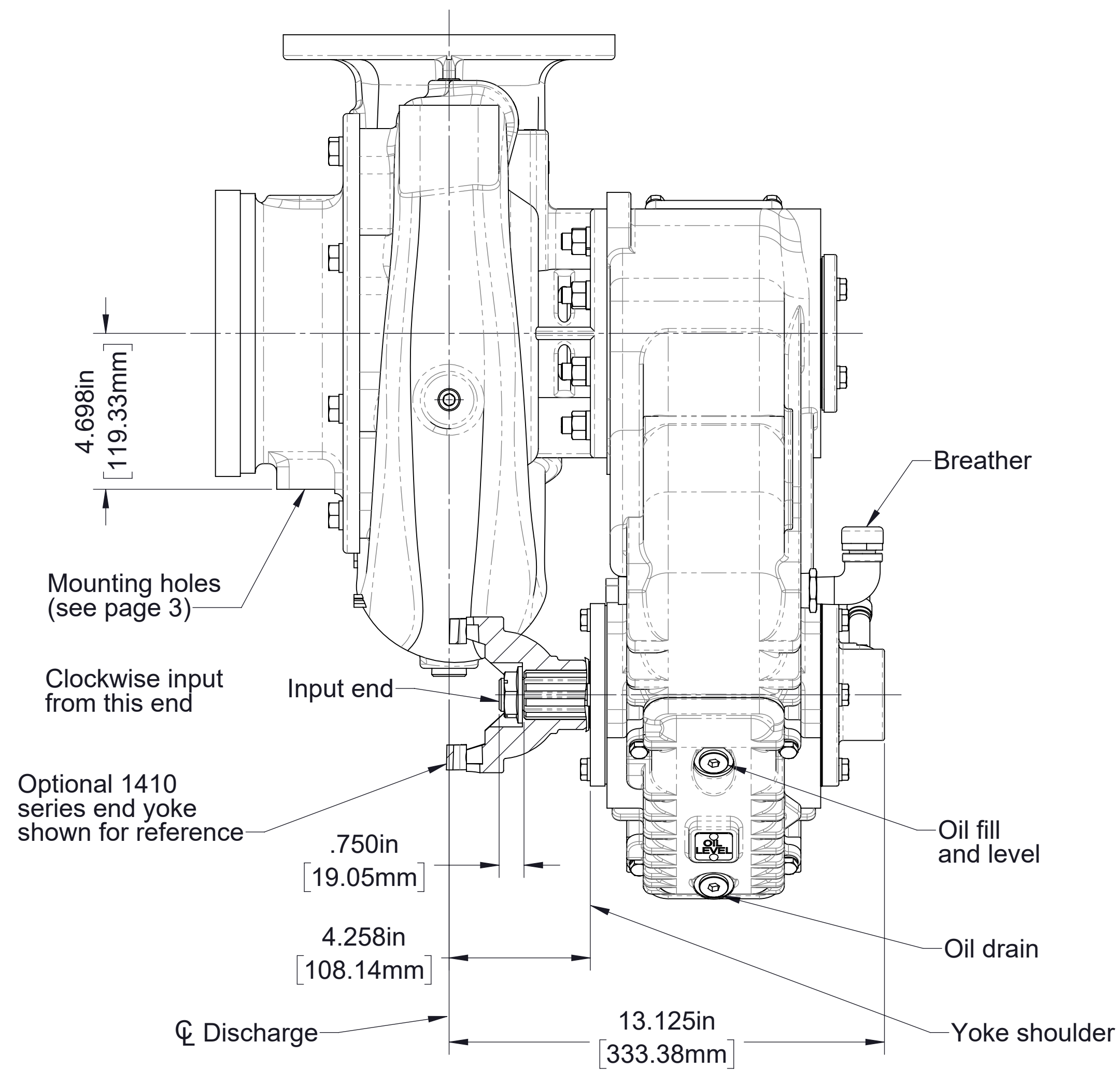
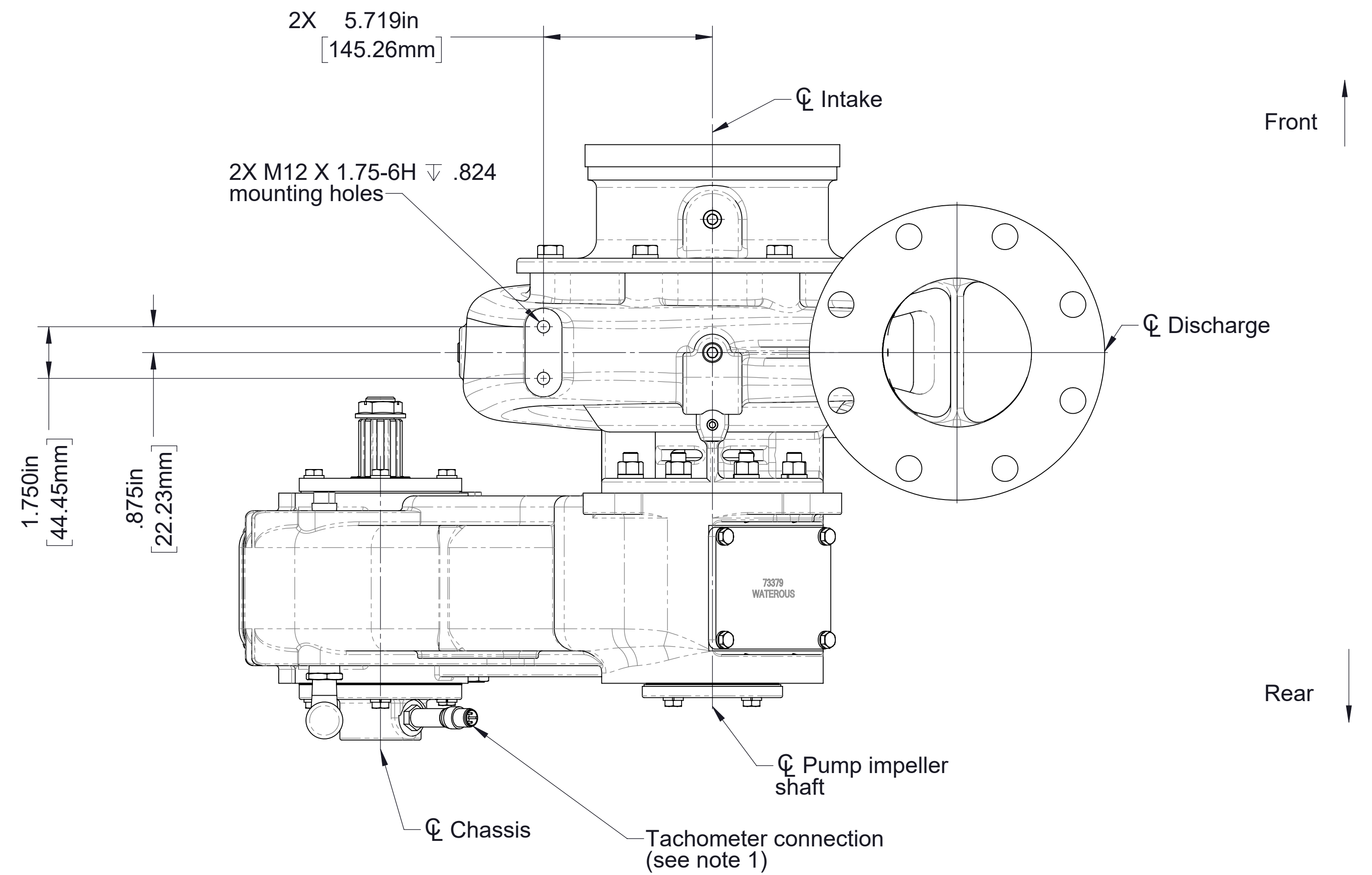


Ordering information

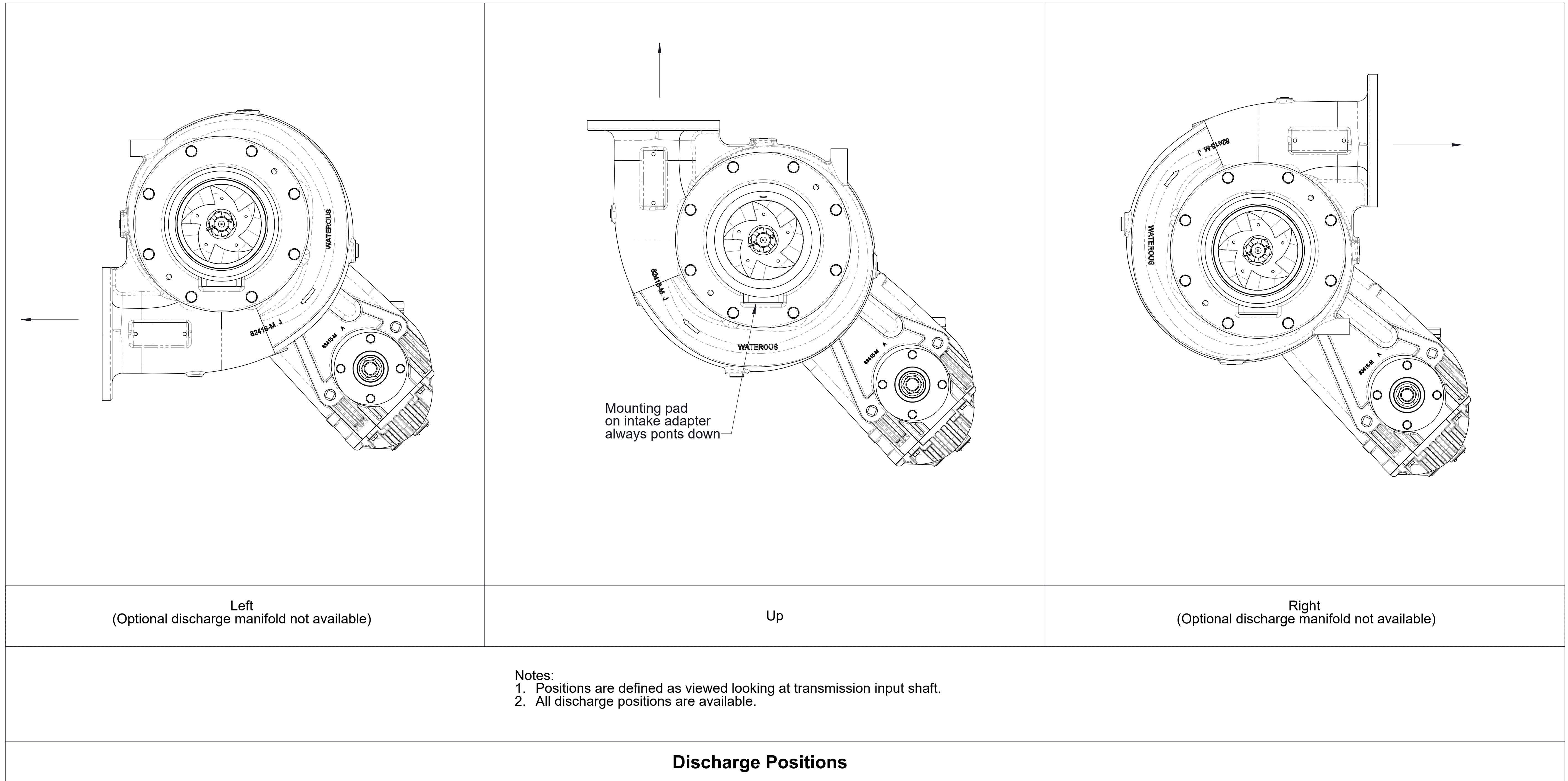
- When ordering furnish the following information:
1. Pump model: S100D.
 2. Input rotation: Counterclockwise
 3. Bearing housing bracket position: vertical or inverted.
 4. Discharge position: left, up or right.
 5. Optional discharge fitting: (see pages 4 through 6).

Table 1 - Available as follows							
Driveline		Ratio	Dimension A	Dimension B	Dimension C	Dimension D	Model
Size	Spline						
1-1/2 Inch	1-1/2-10 SAE	1.70	11.288in 286.71mm	10.973in 277.94mm	6.111in 155.22mm	4.737in 120.32mm	S100PA
		1.90	11.269in 286.24mm	10.924in 277.47mm	6.130in 155.70mm	4.755in 120.79mm	
		2.10	11.39in 289.46mm	10.894in 276.70mm	6.160in 156.46mm	4.786in 121.56mm	

Notes:
1. See drawing DPL82080 for additional details of P series transmission.



Model S100PA
Input shaft only
Pump mounted on front (input shaft side) of transmission
Clockwise input, model S100PA 2.10 ratio shown, blank discharge, up discharge position shown



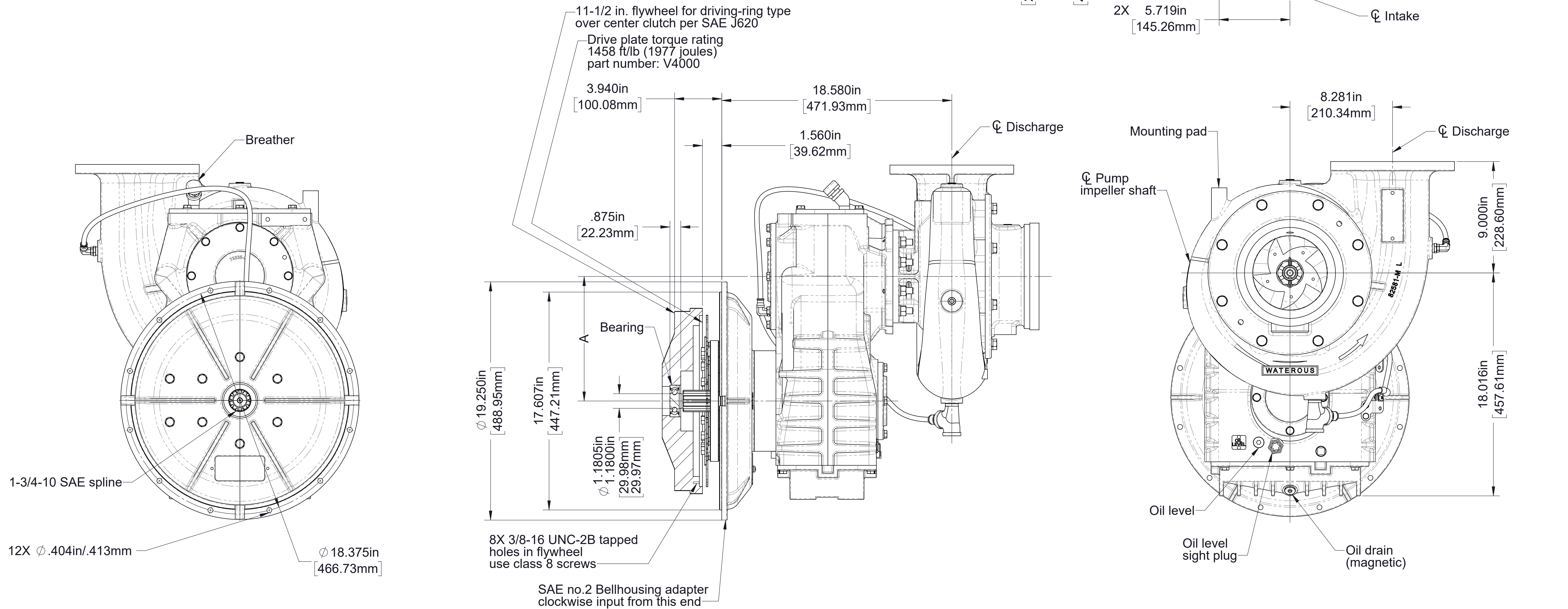
Ordering Information

When Ordering furnish the following informaton:

1. Pump model: S100PA
2. Drive to driven ratio: (see page 23).
3. Pump mounting: front (input shaft side) of transmission.
4. Discharge position: left, up or right.
5. Optional discharge fitting: (see pages 4 through 6).

Pump mounted on front (input shaft side) of transmission
model S100PA ordering information

Driveline		Table 1		
Size	Spline	Ratio	Dimension A	Model
1-3/4 Inch	1-3/4-10 SAE	1.63	10.063in 255.60mm	S100QC
		2.10	10.553in 268.05mm	



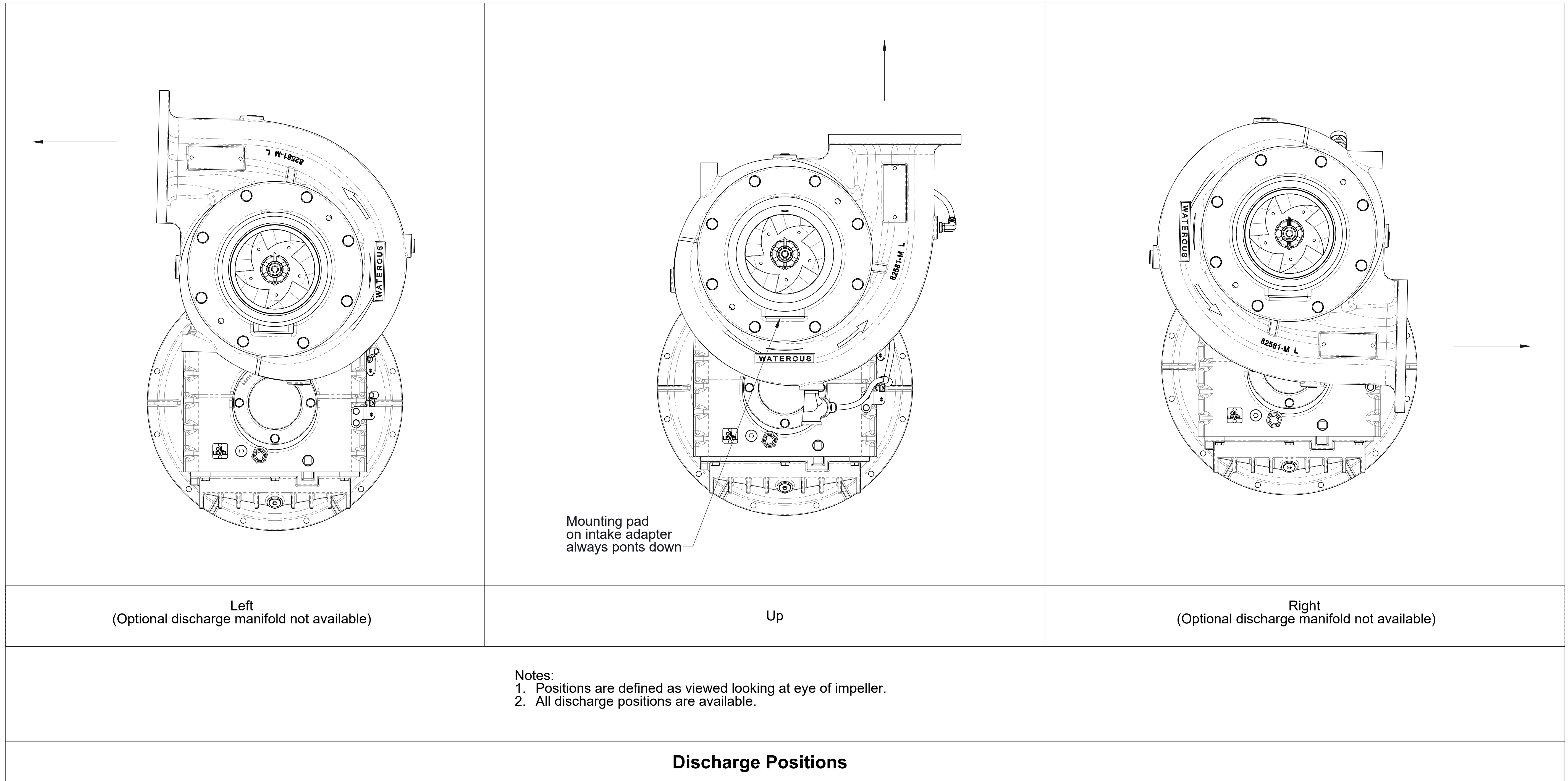
Model S100QC

Input shaft only

Direct engine mounted, vertical case

Pump mounted on rear (output shaft side) of transmission

Clockwise input, Model S100QC, 1.83 ratio shown, blank discharge, up discharge position shown



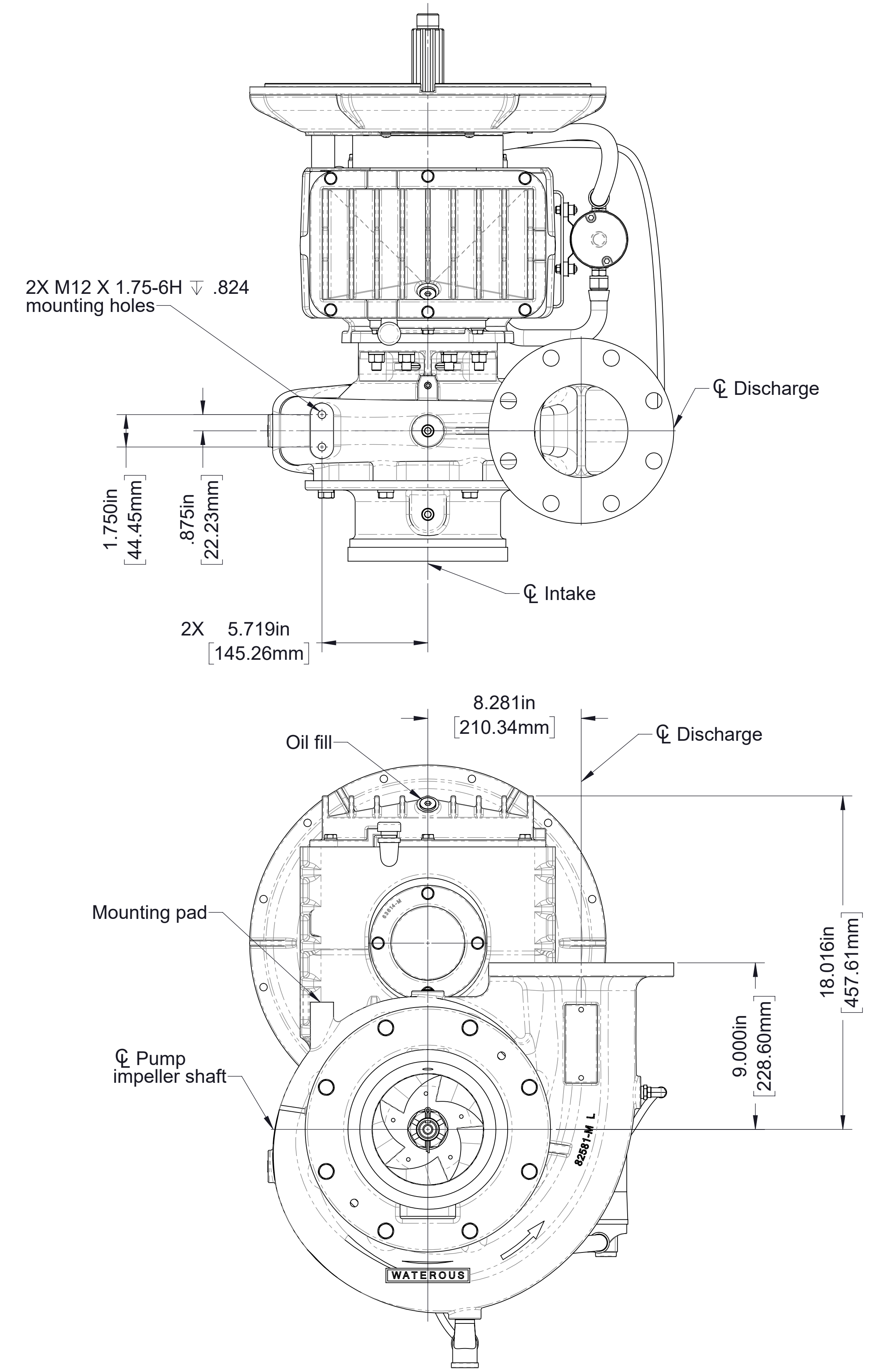
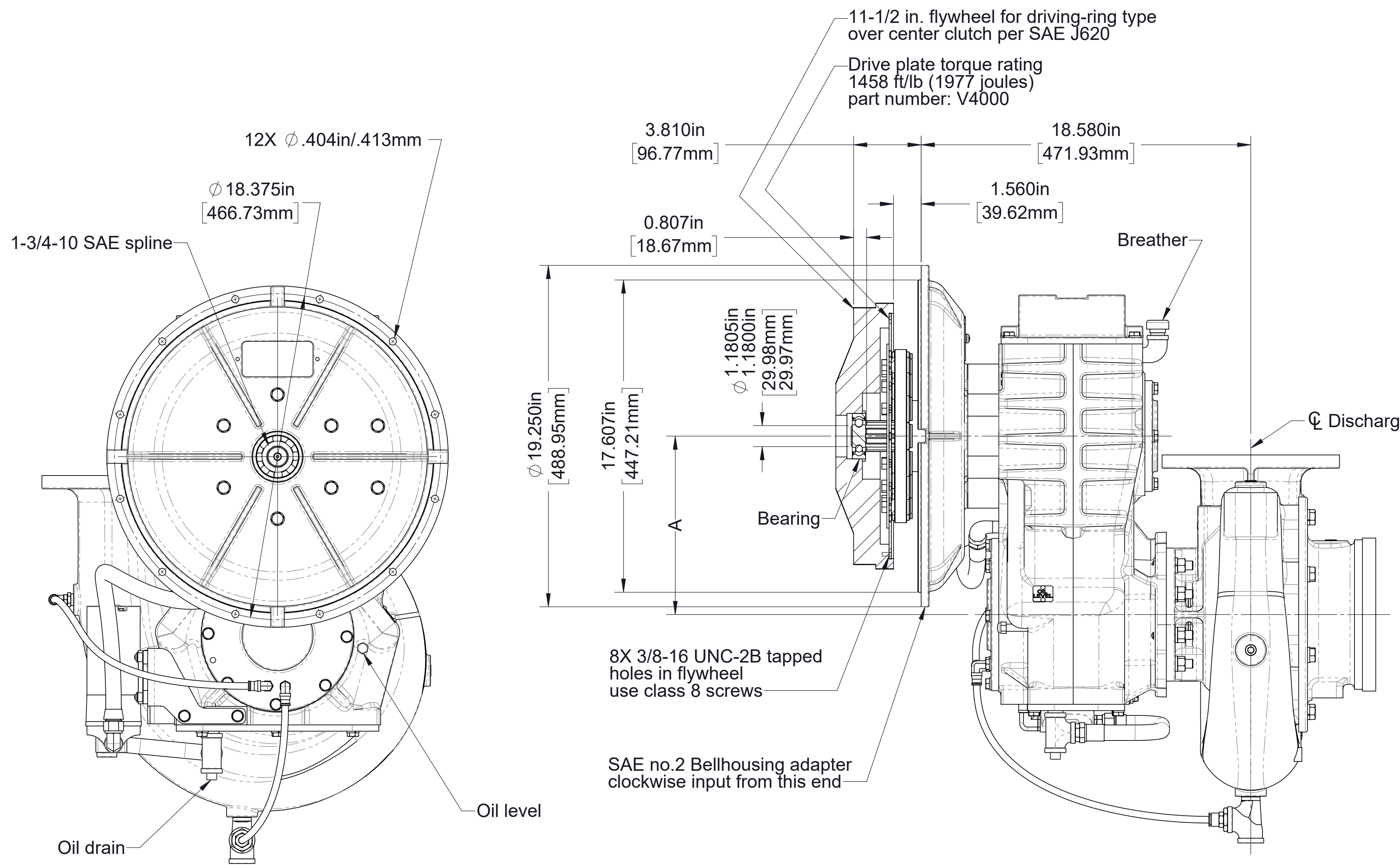
Ordering Information

When Ordering furnish the following informaton:

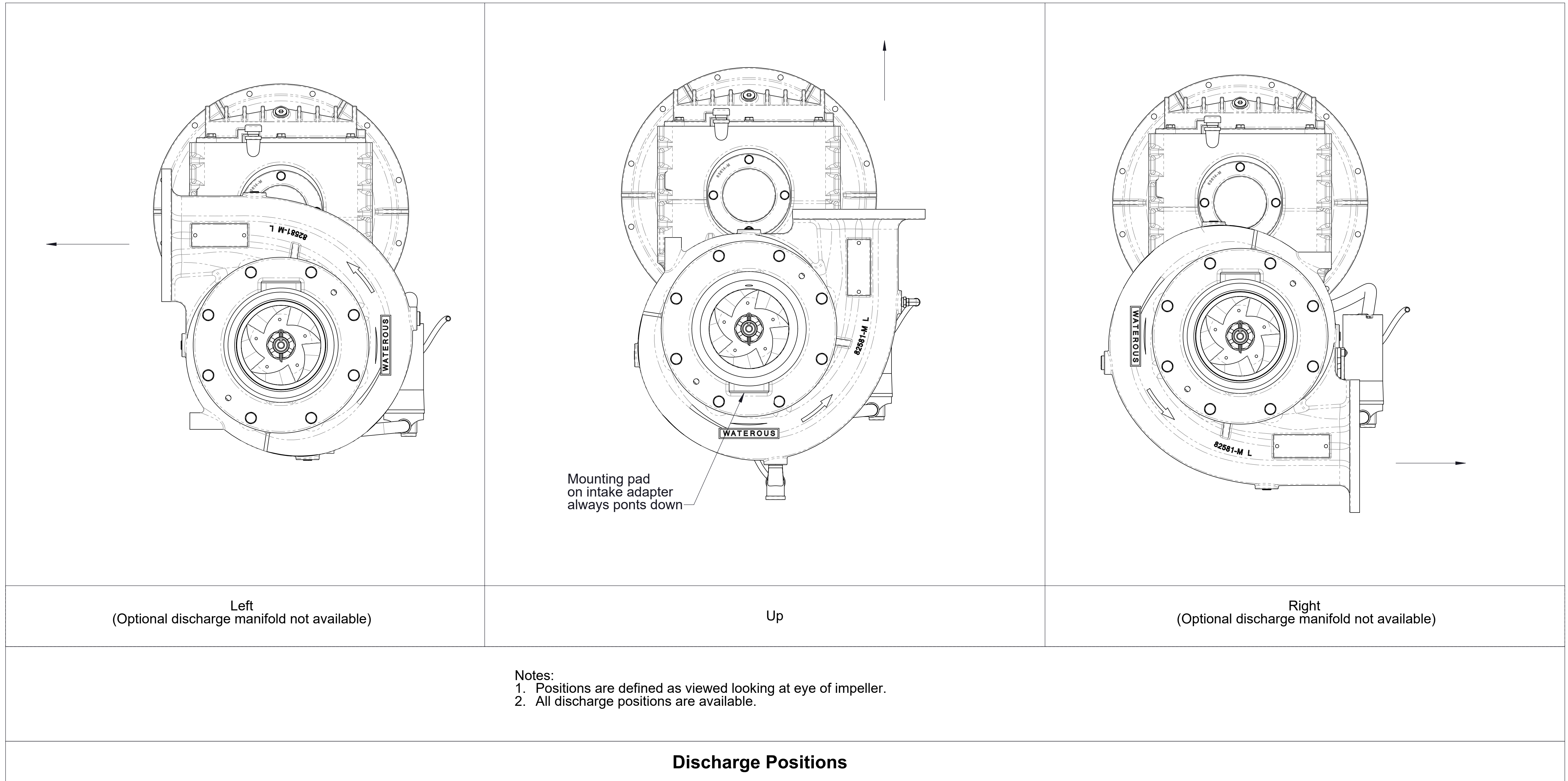
1. Pump model: S100QC.
2. Drive to driven ratio: (see page 25).
3. Pump mounting: rear (output shaft side) of transmission.
4. Discharge position: left, up or right.
5. Optional discharge fitting: (see pages 4 through 6).

Direct engine mounted, vertical case
Pump mounted on rear (output shaft side) of transmission
Model S100QC ordering information

Driveline		Table 1		
Size	Spline	Ratio	Dimension A	Model
1-3/4 Inch	1-3/4-10 SAE	1.83	10.063in 255.60mm	S100QC
		2.10	10.553in 268.05mm	



Model S100QC
 Input shaft only
 Direct engine mounted, inverted case
 Pump mounted on rear (output shaft side) of transmission
 Clockwise input, Model S100QC, 1.83 ratio shown, blank discharge, up discharge position shown

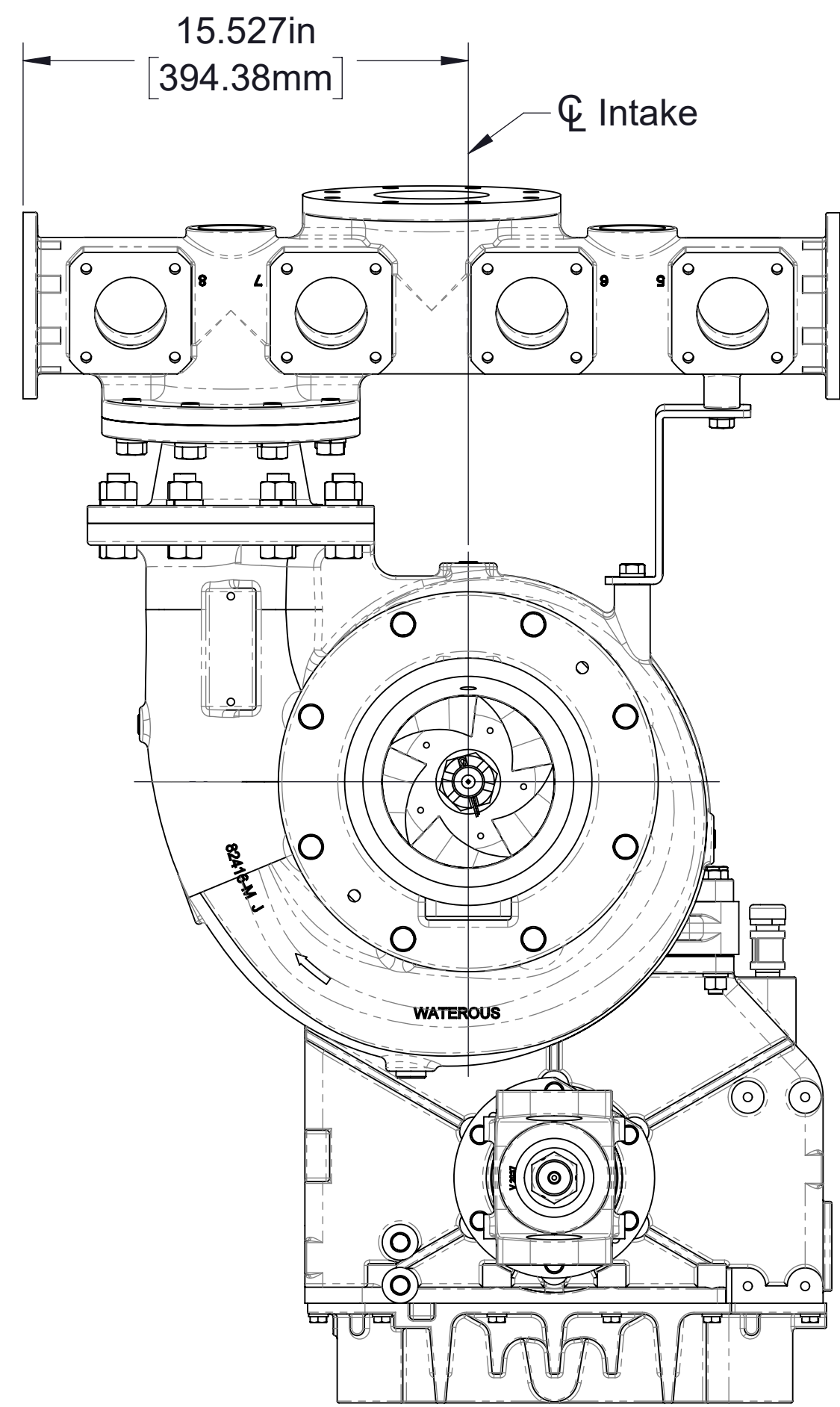


Ordering Information

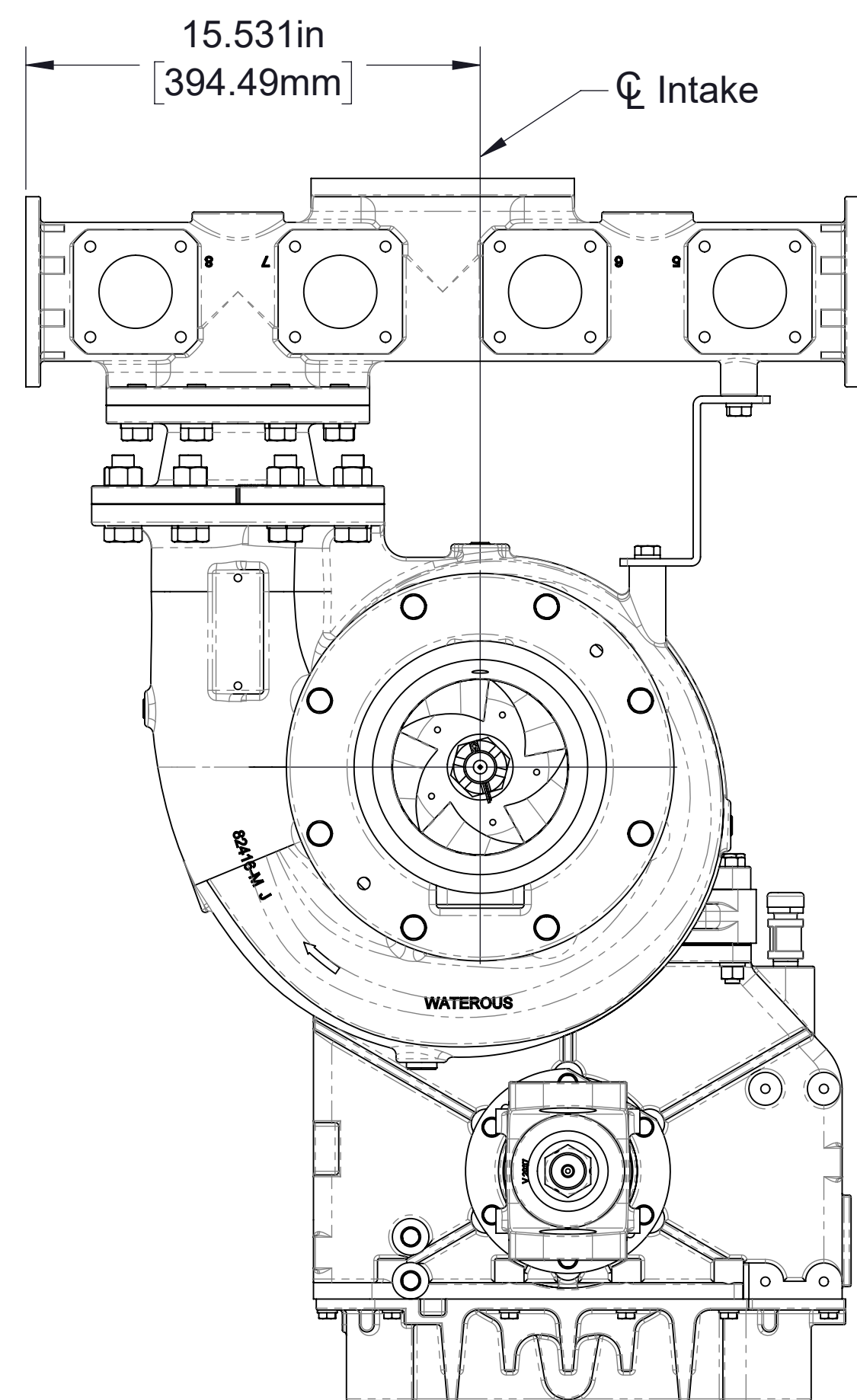
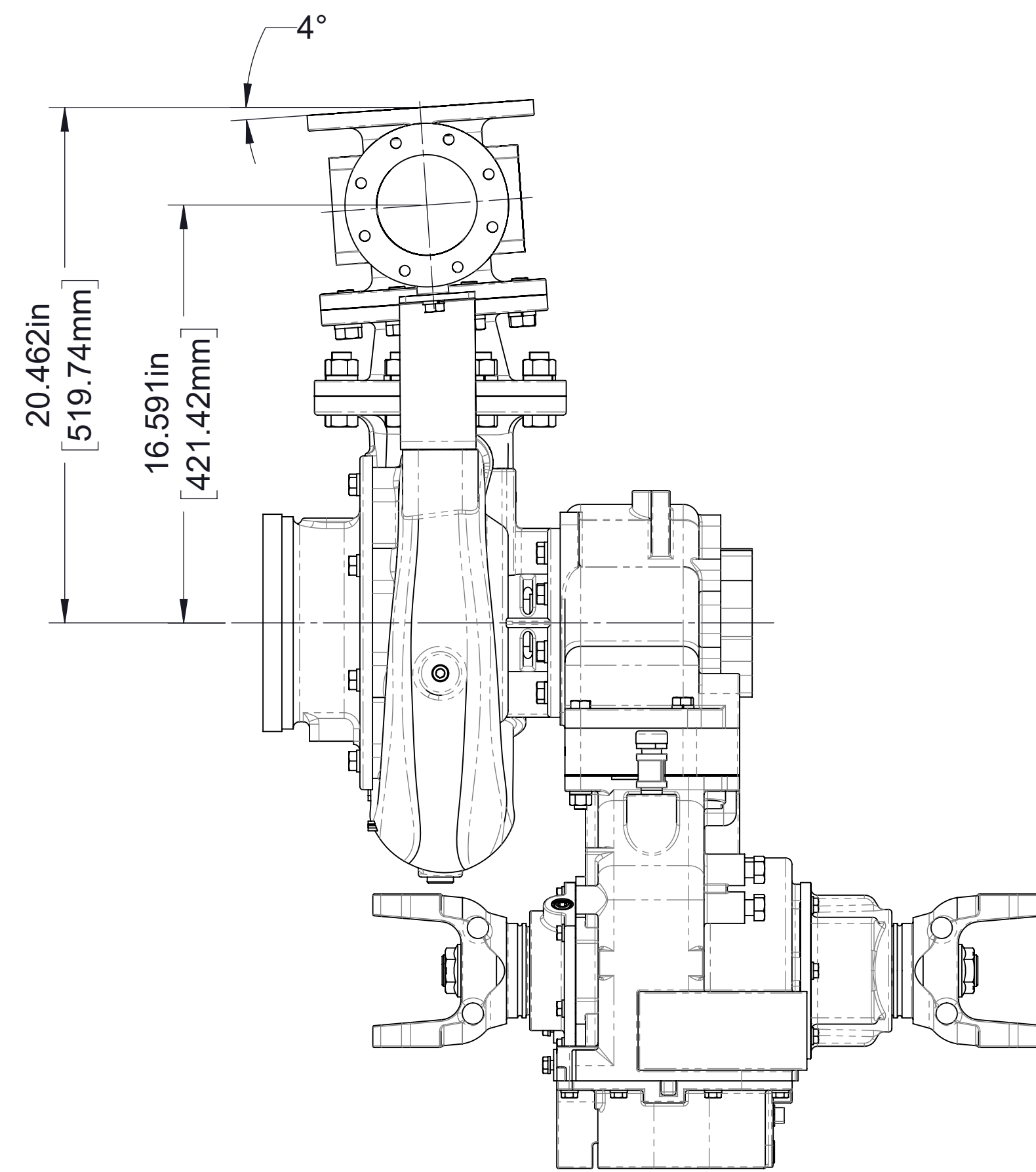
When Ordering furnish the following information:

1. Pump model: S100QC.
2. Drive to driven ratio: (see page 27).
3. Pump mounting: rear (output shaft side) of transmission.
4. Discharge position: left, up or right.
5. Optional discharge fitting: (see pages 4 through 6).

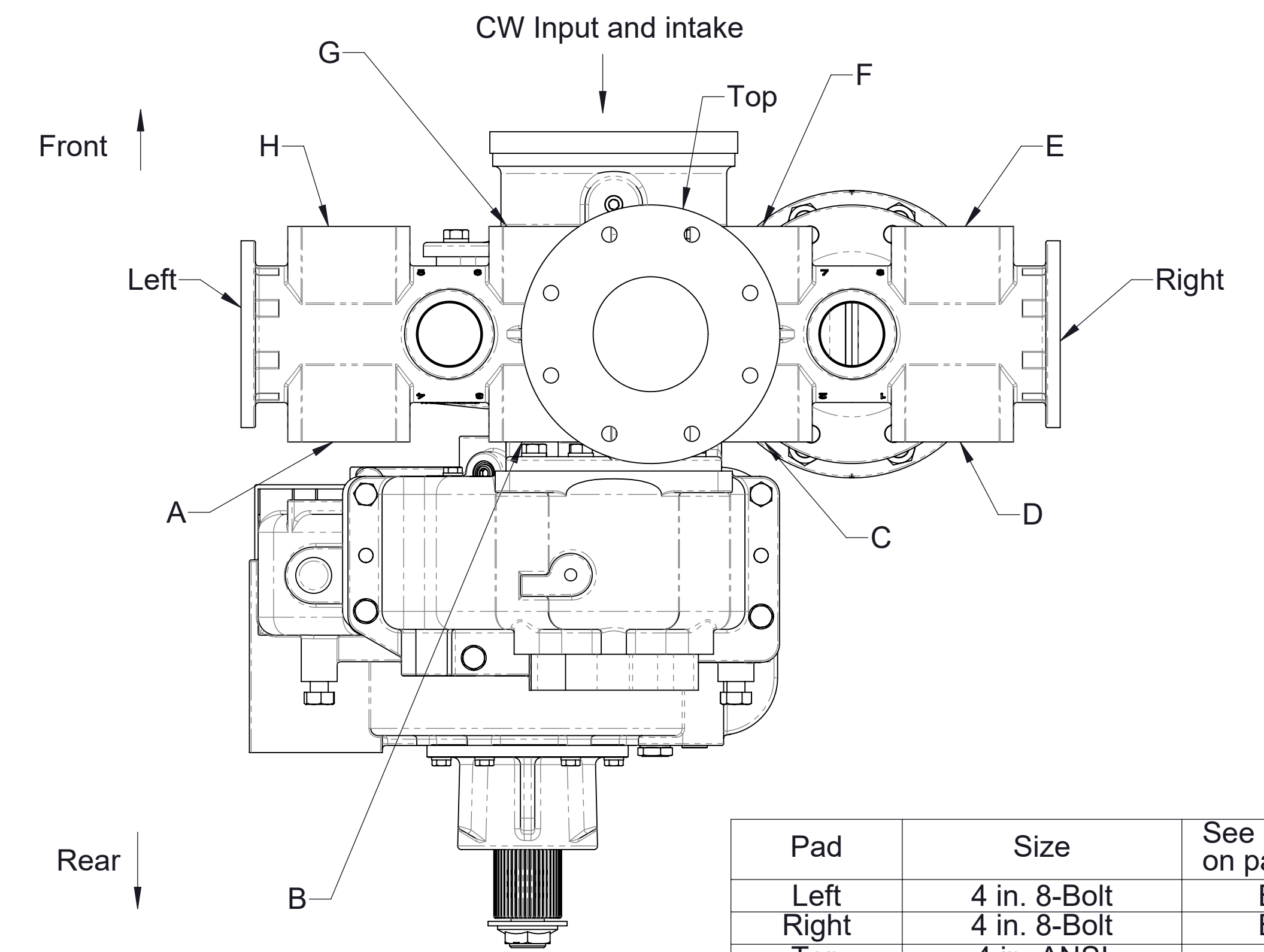
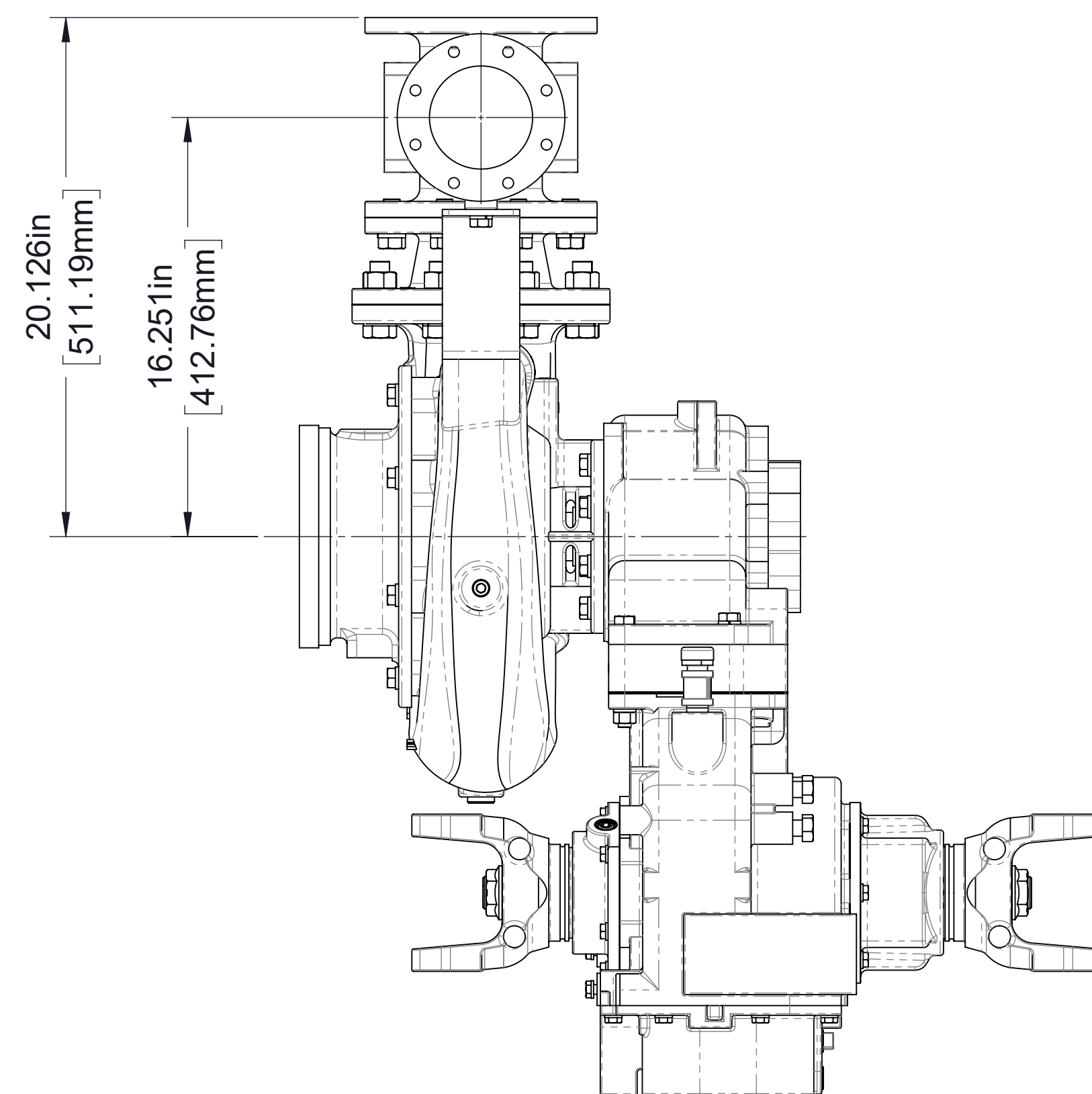
Direct engine mounted, inverted case
Pump mounted on rear (output shaft side) of transmission
Model S100QC ordering information



Angle Compensated



Non-Angle Compensated

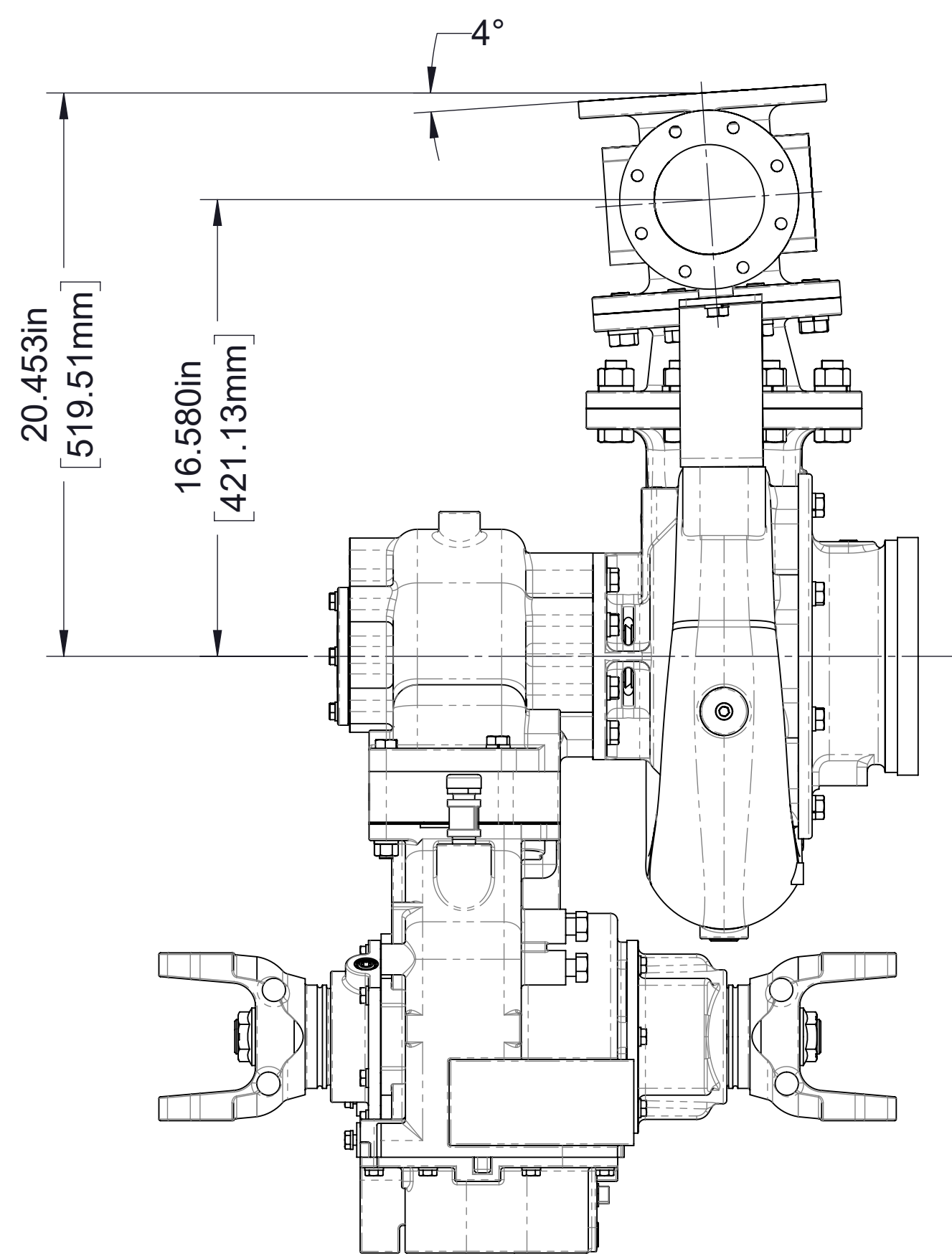


Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

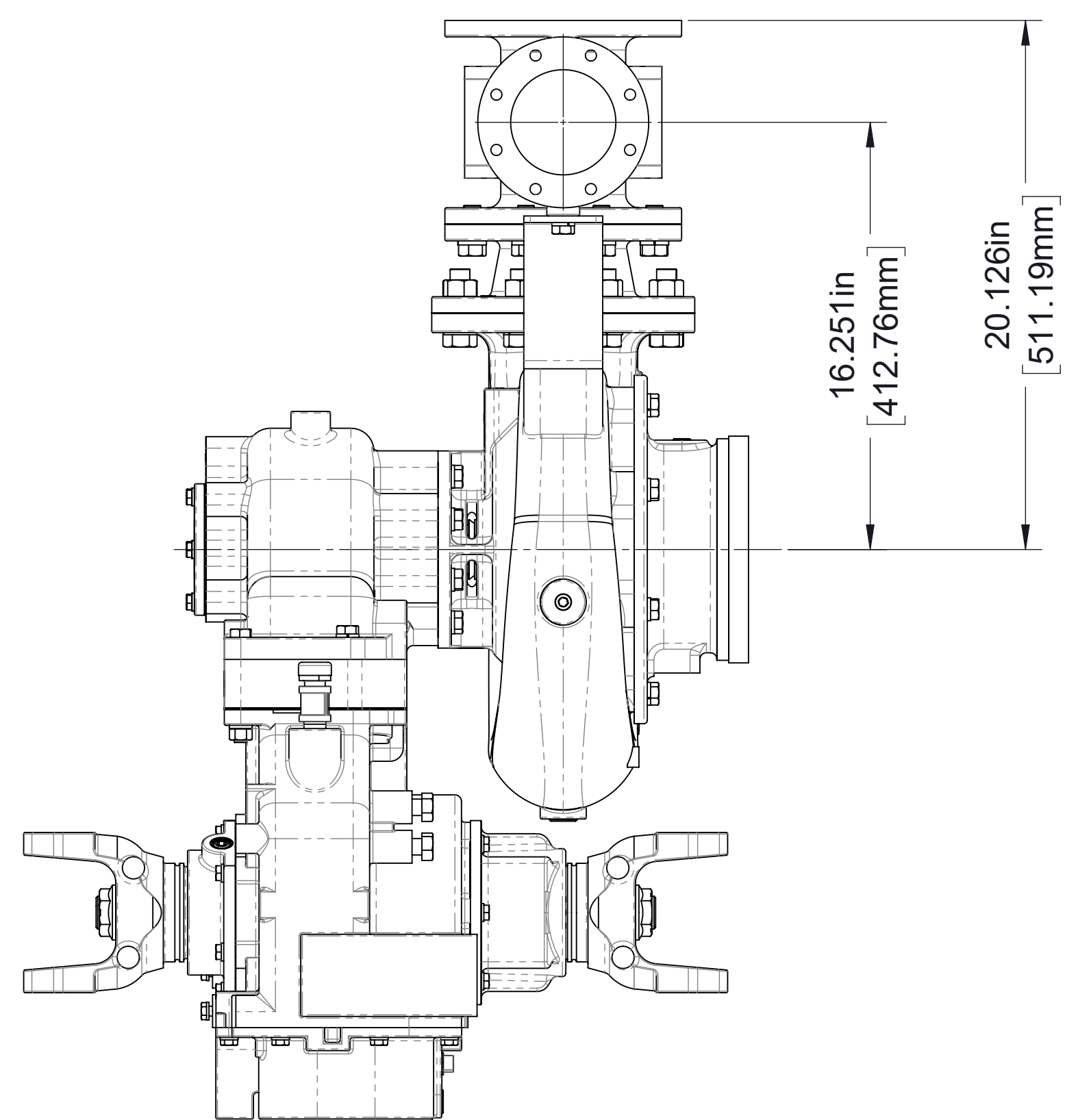
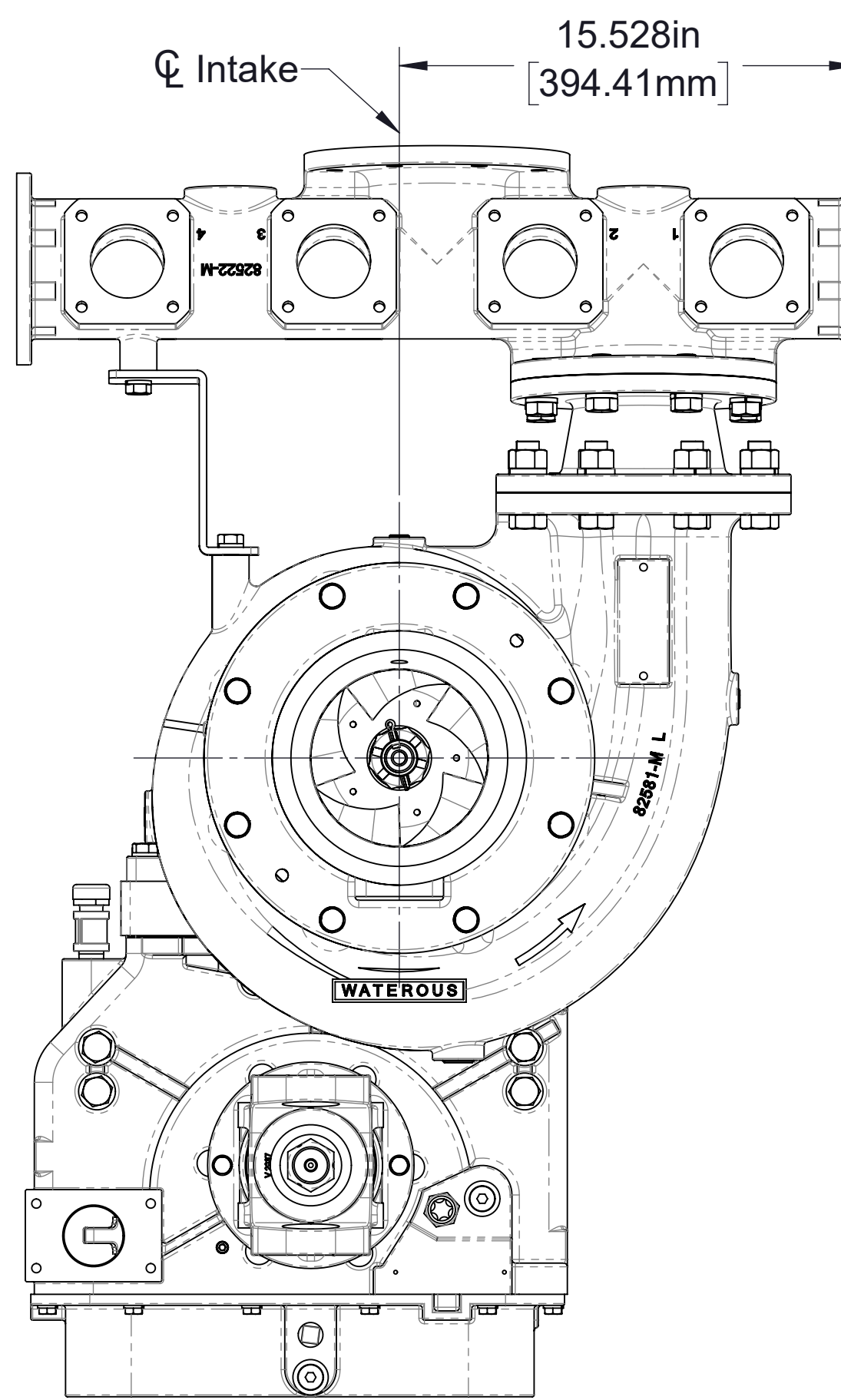
Manifold Pads

Manifold Mounted Perpendicular to Intake Model S100C20

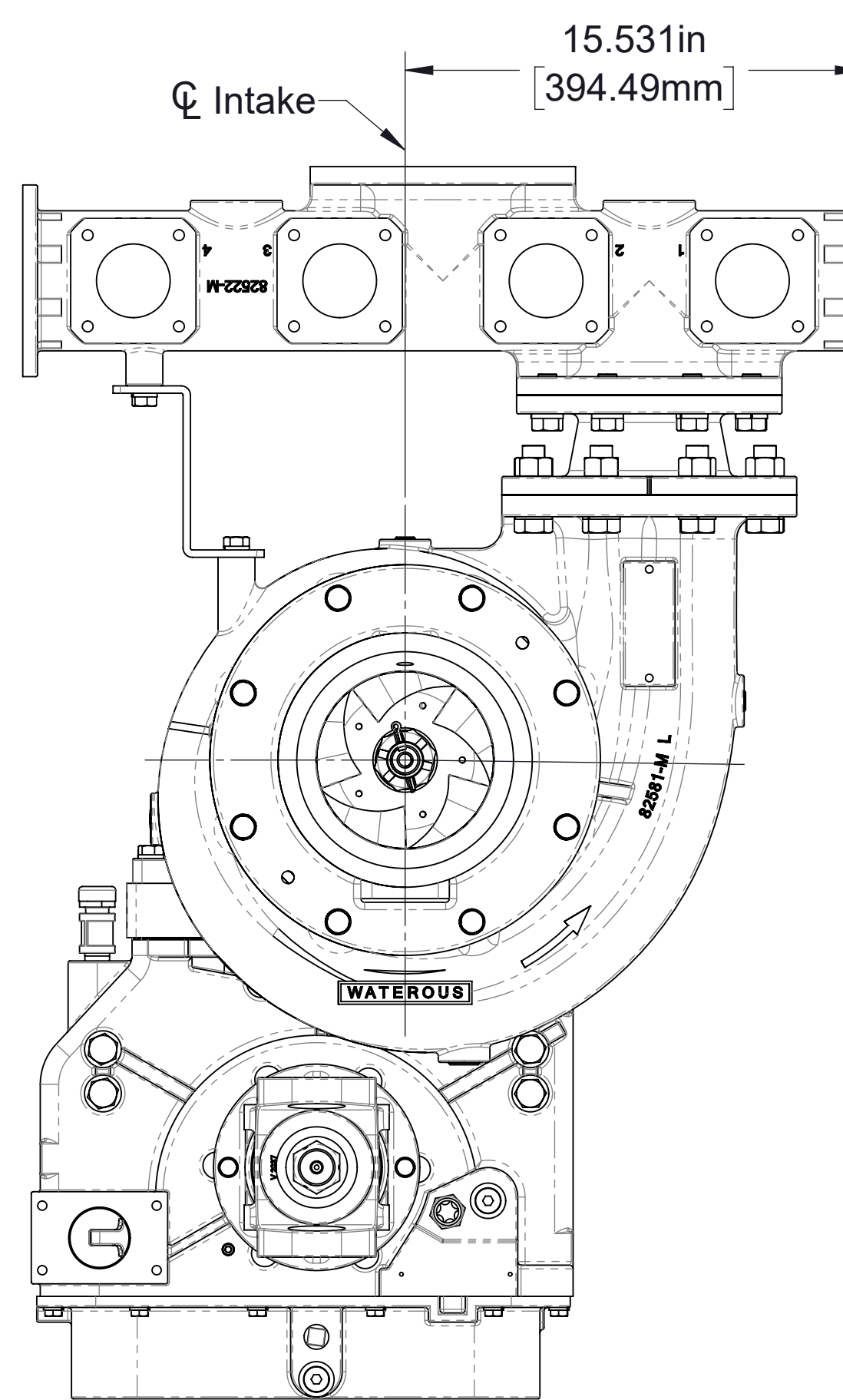
Pump mounted on front (input shaft side) of transmission
 Note: See page 6 for manifold dimensions not shown



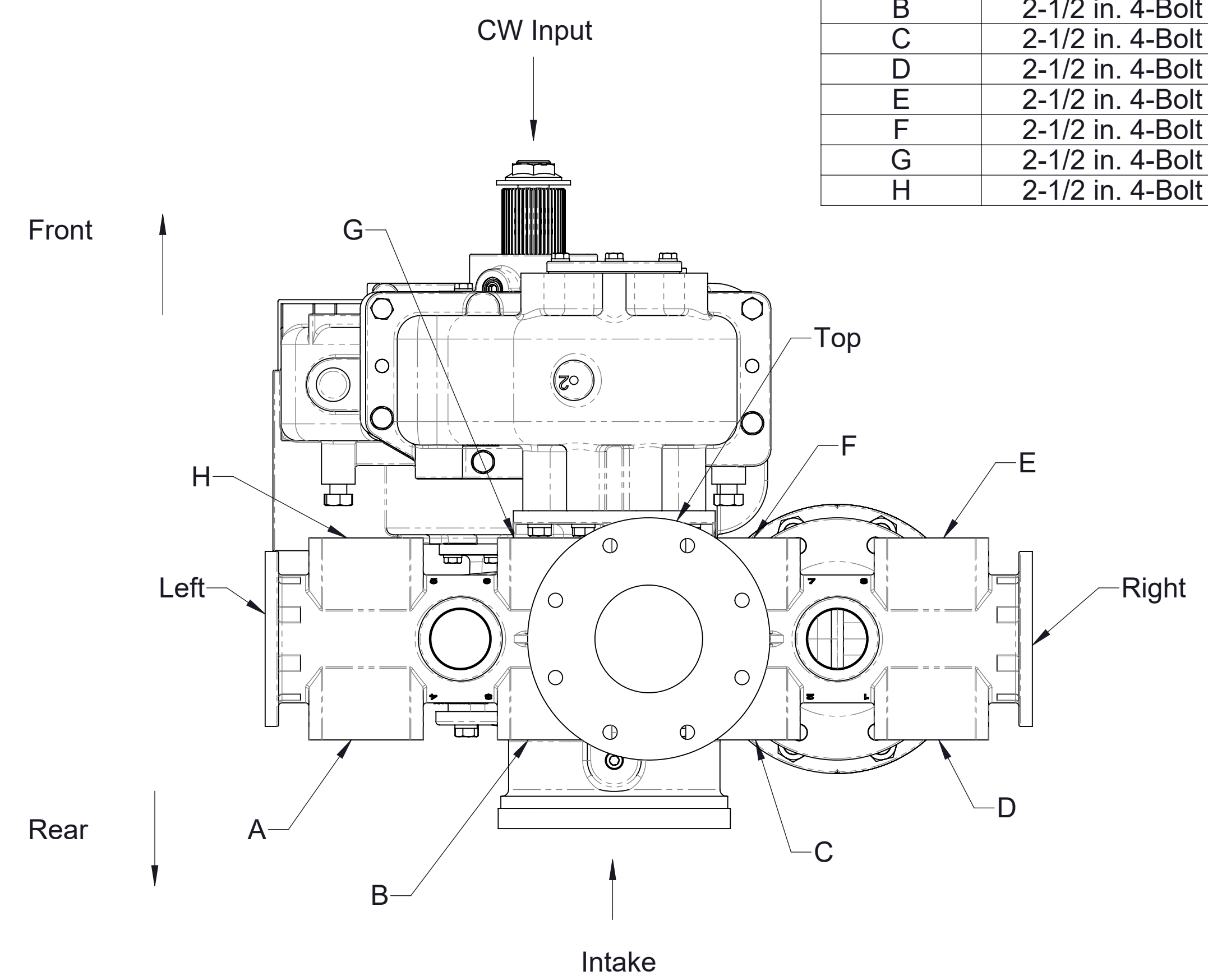
Angle Compensated



Non-Angle Compensated



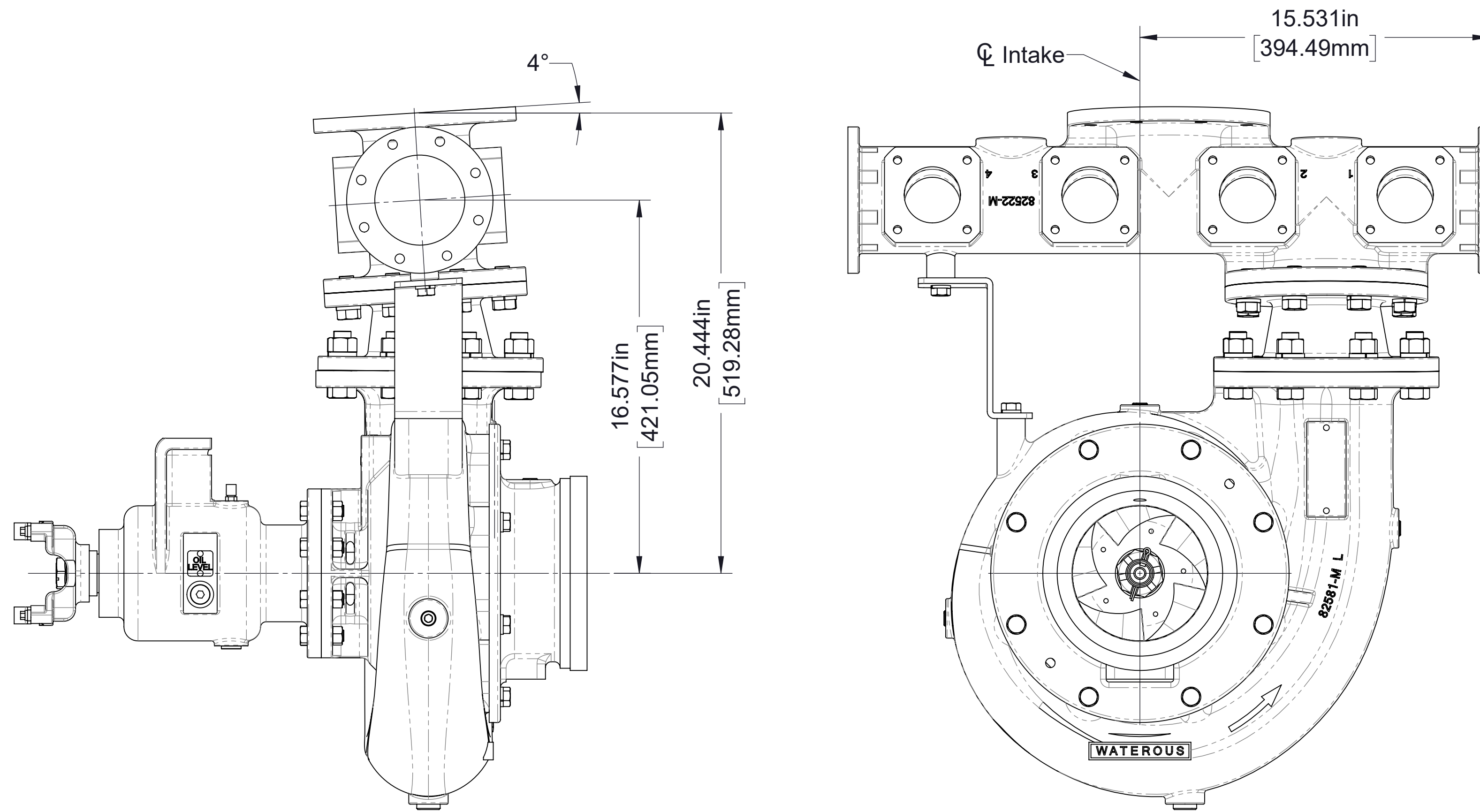
Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C



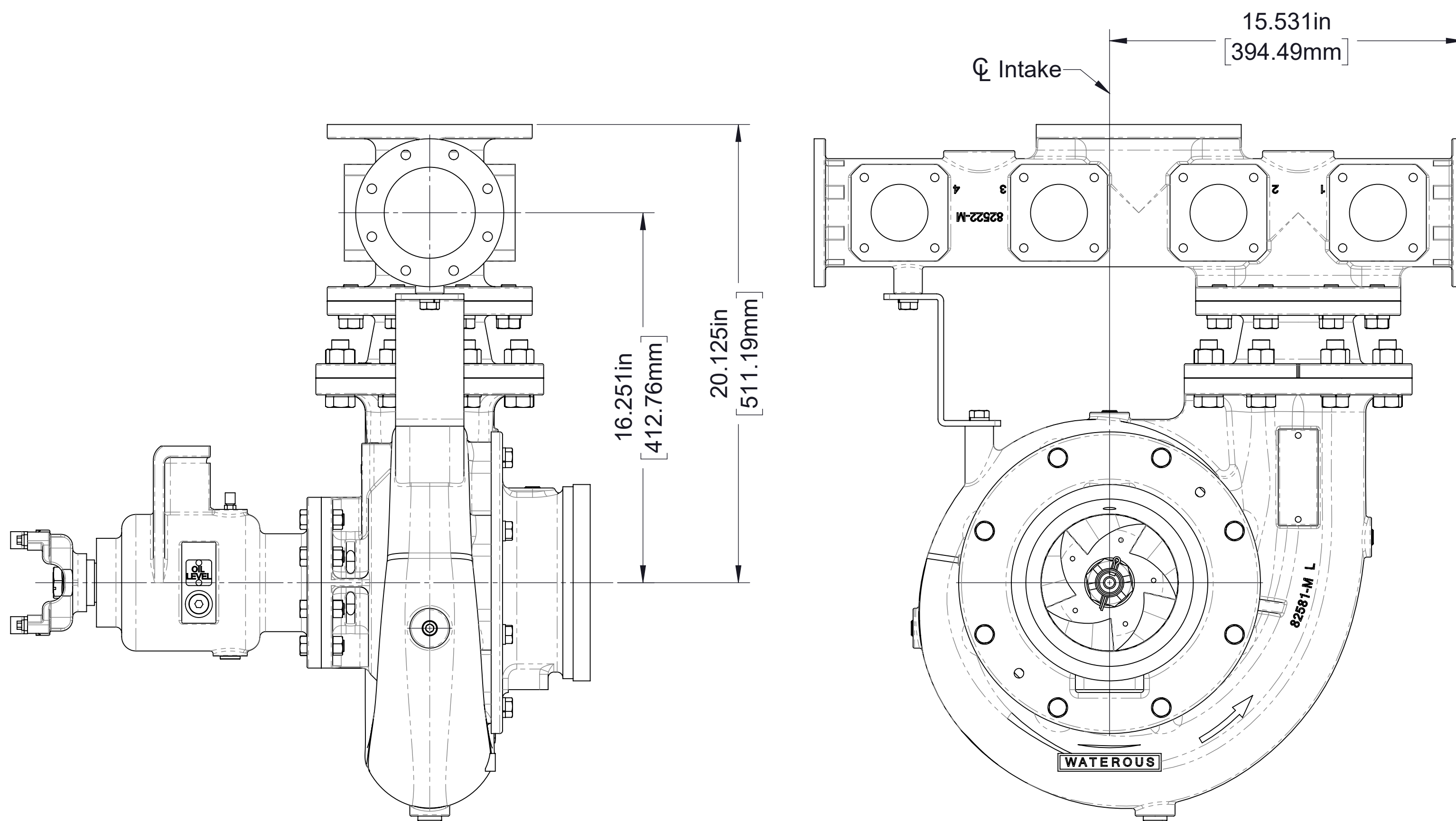
Manifold Pads

Manifold Mounted Perpendicular to Intake Model S100C20

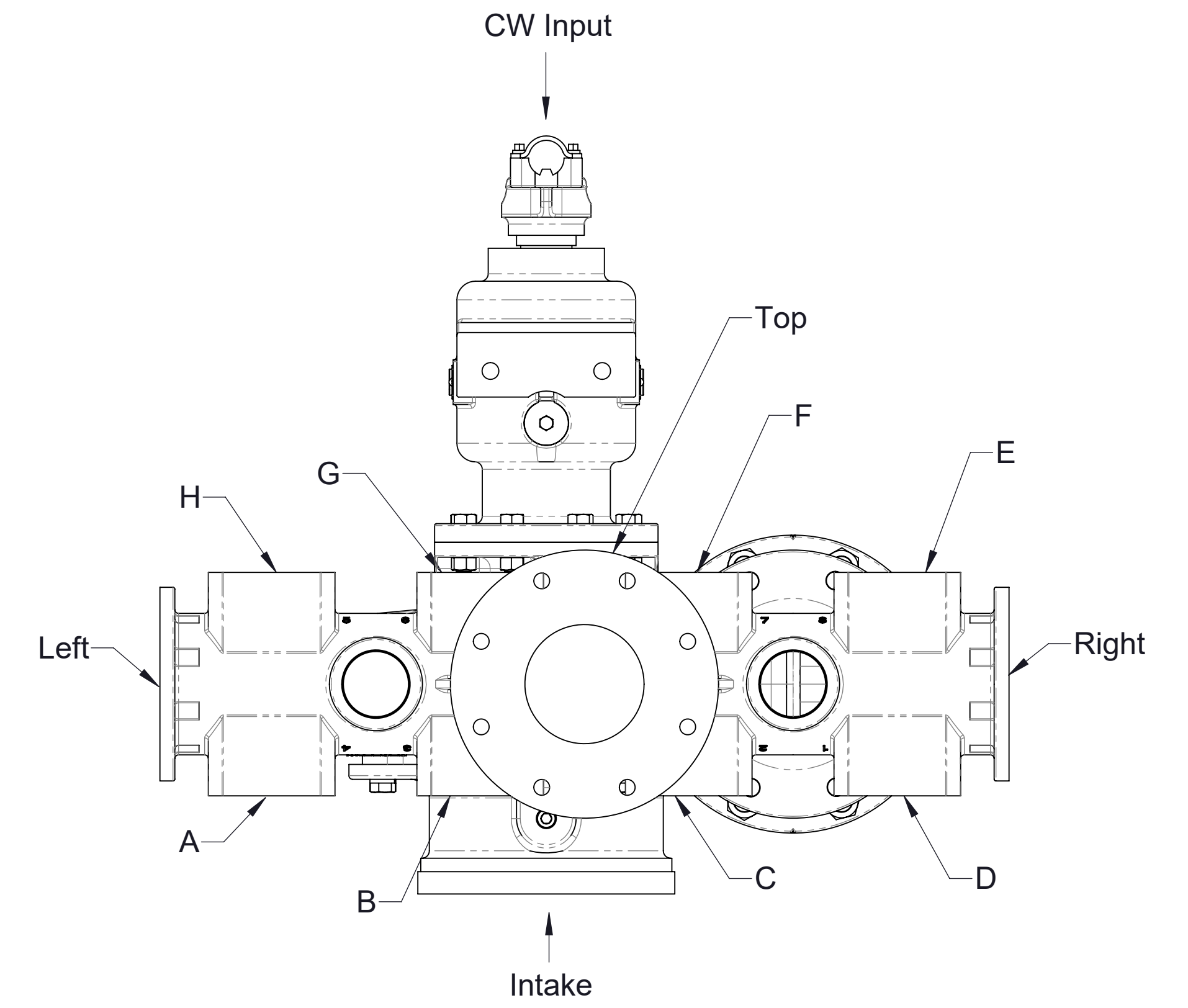
Pump mounted on rear (ouput shaft side) of transmission
 Note: See page 6 for manifold dimensions not shown



Angle Compensated



Non-Angle Compensated

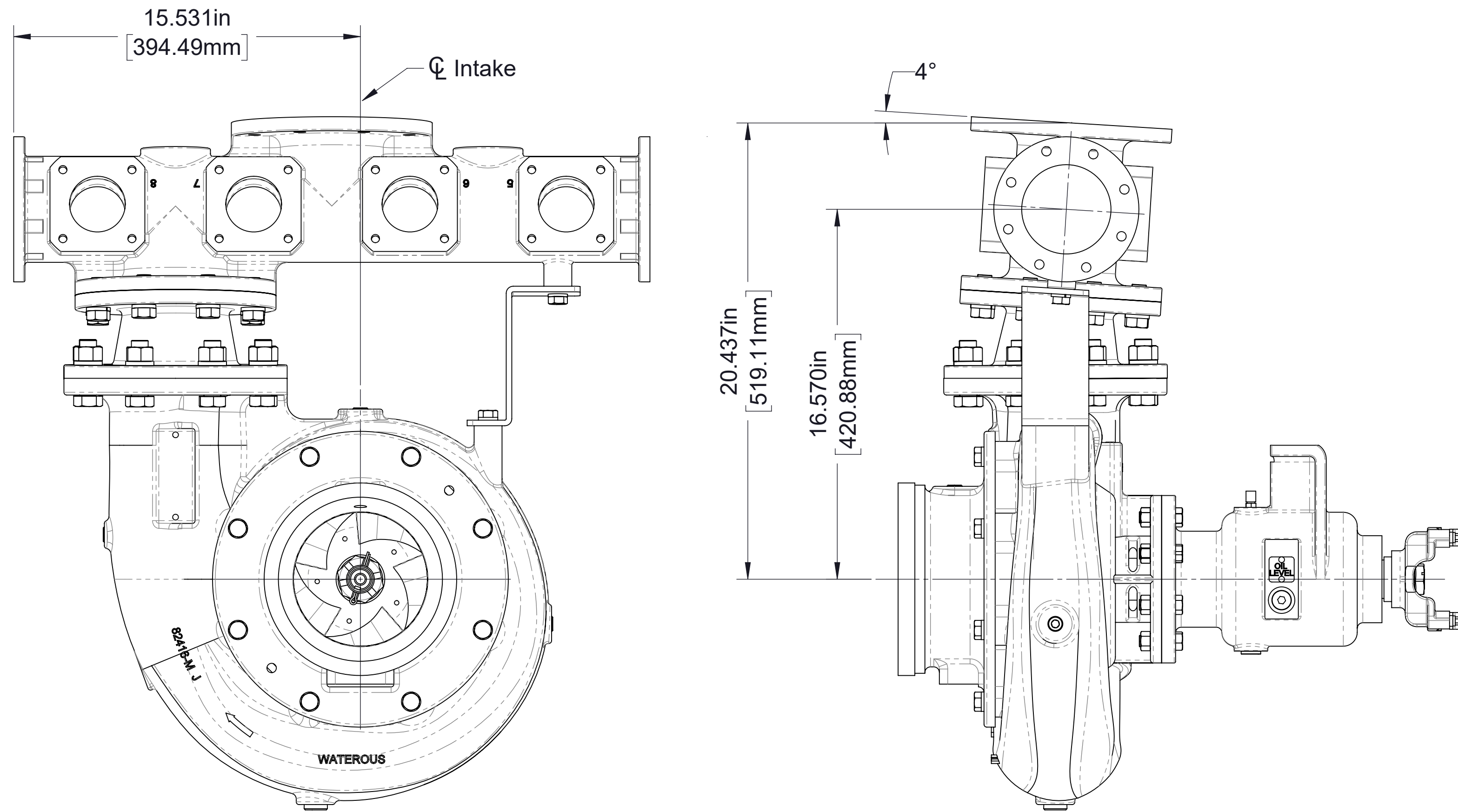


Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

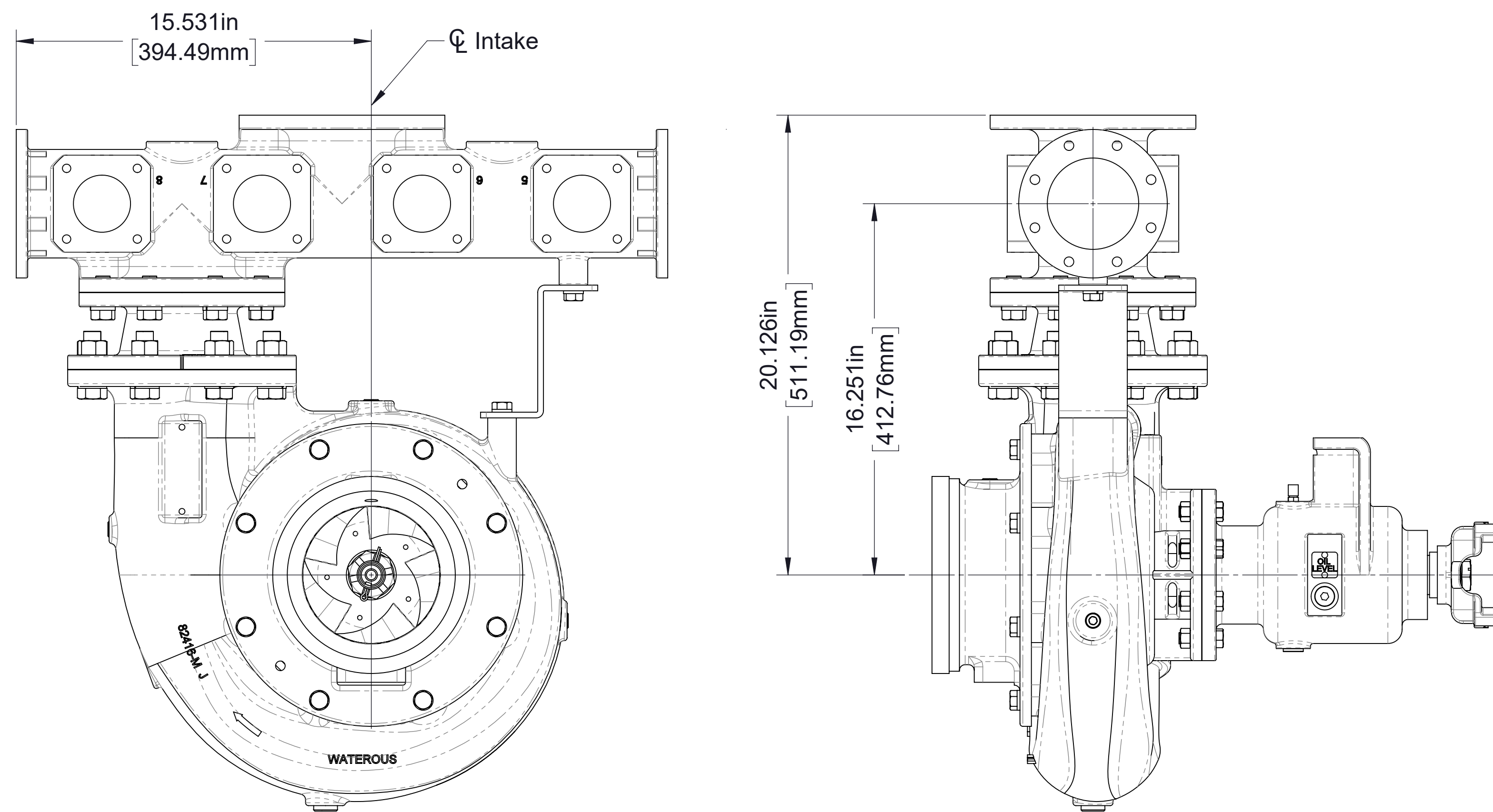
Manifold Pads

Manifold Mounted Perpendicular to Intake Model S100C20

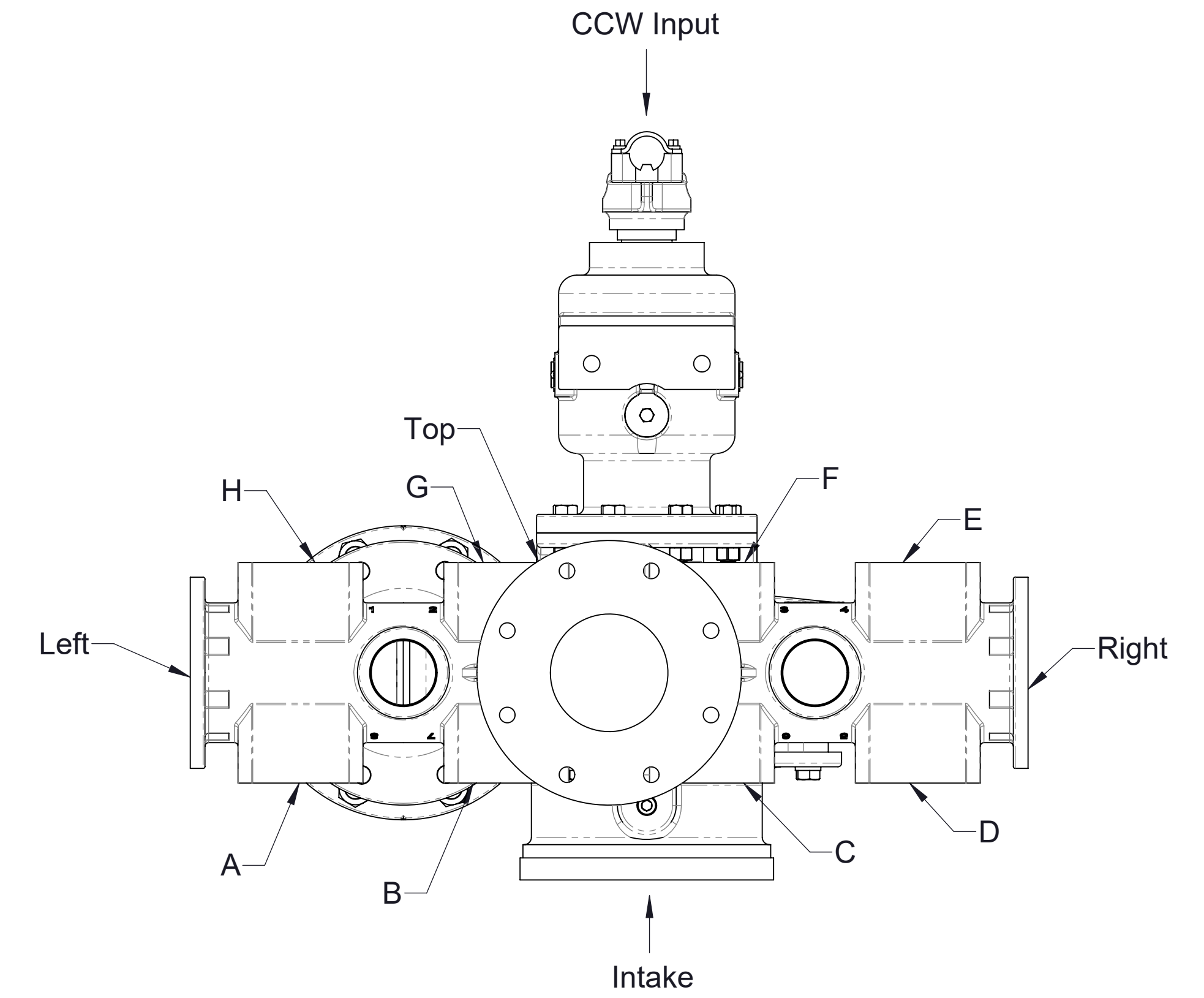
CW Input
Note: See page 6 for manifold dimensions not shown



Angle Compensated



Non-Angle Compensated

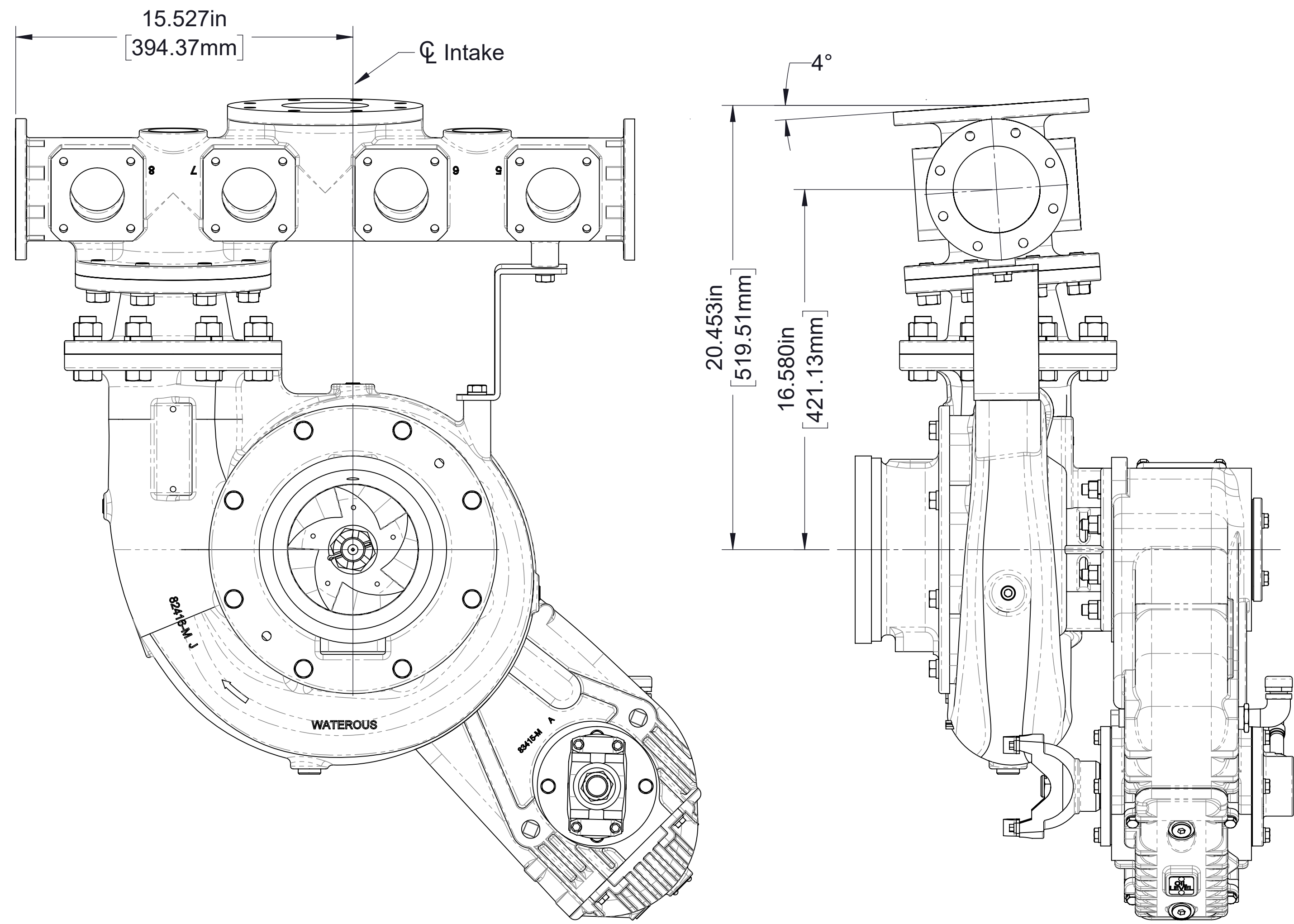


Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

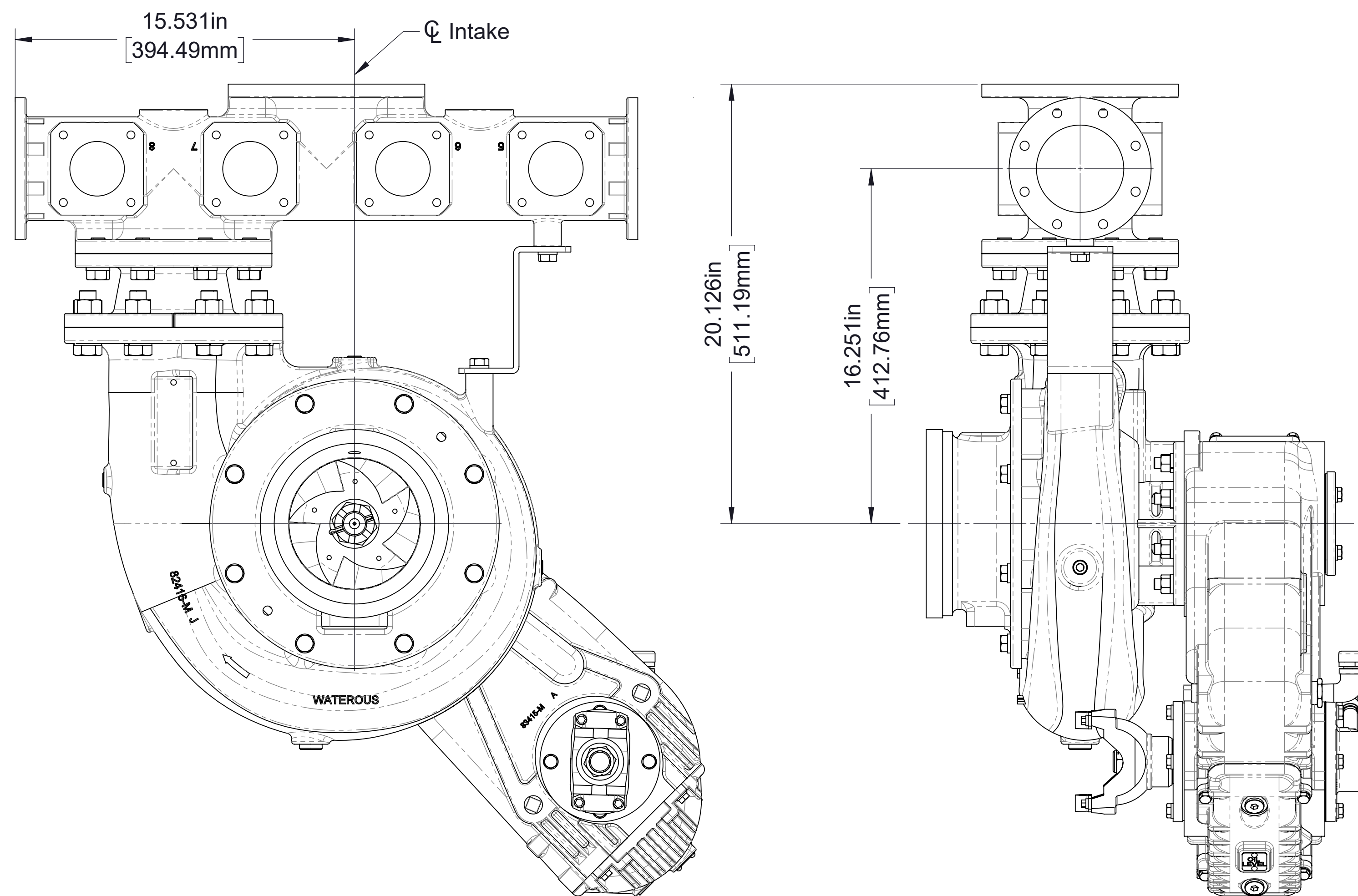
Manifold Pads

Manifold Mounted Perpendicular to Intake Model S100D

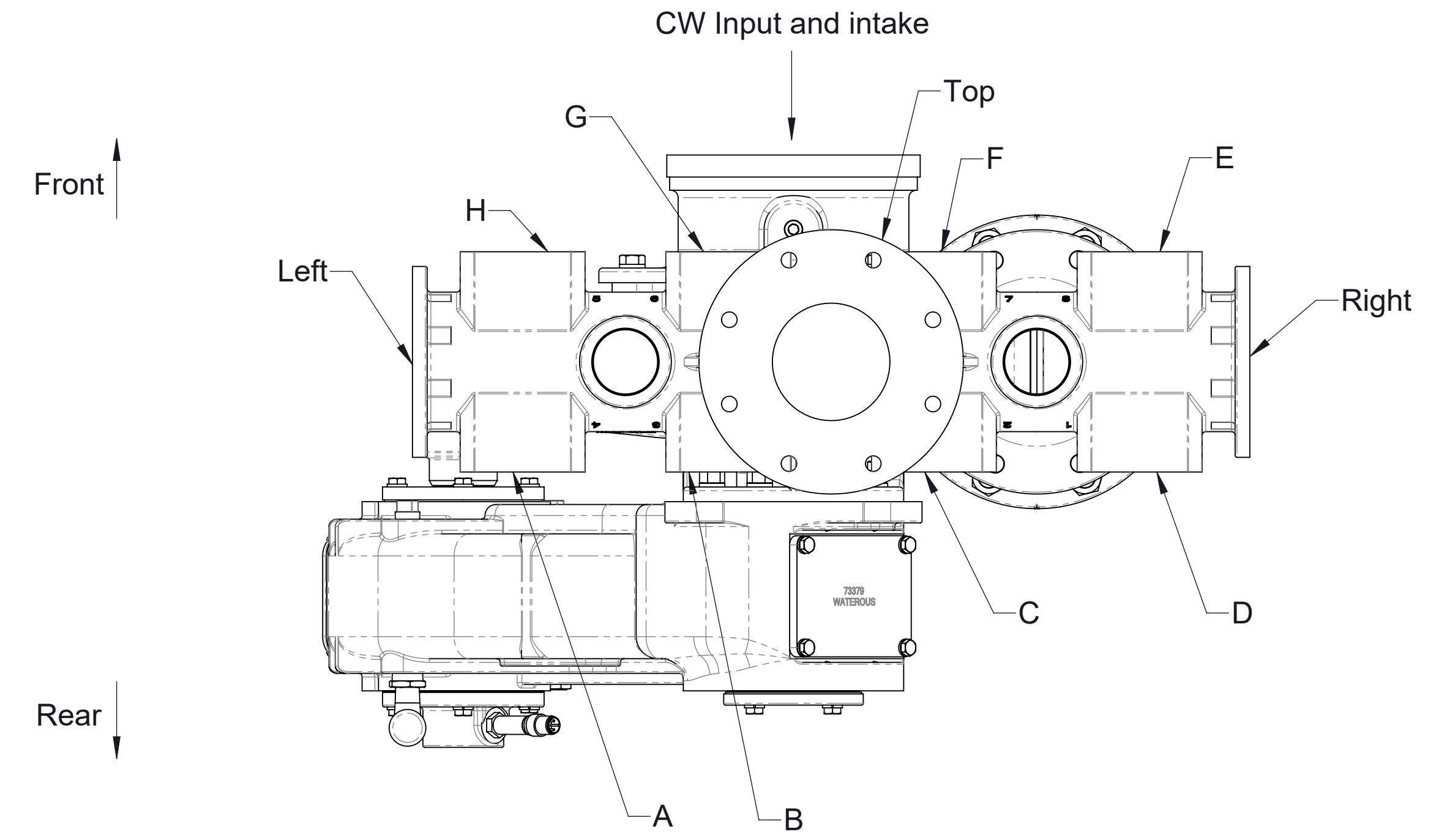
CCW Input
 Note: See page 6 for manifold dimensions not shown



Angle Compensated



Non-Angle Compensated

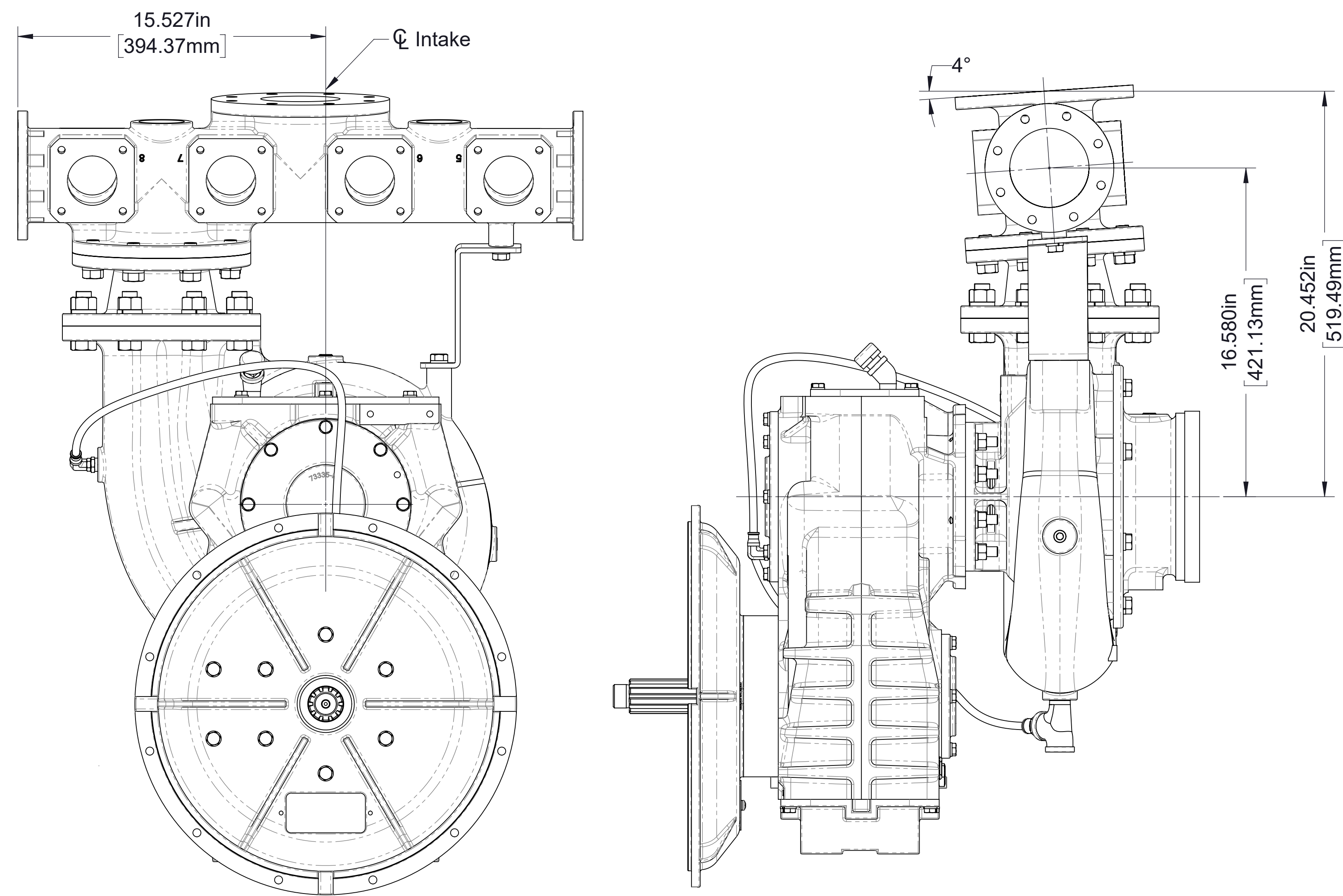


Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

Manifold Pads

Manifold Mounted Perpendicular to Intake Model S100PA

Pump mounted on front (input shaft side) of transmission
 Note: See page 6 for manifold dimensions not shown



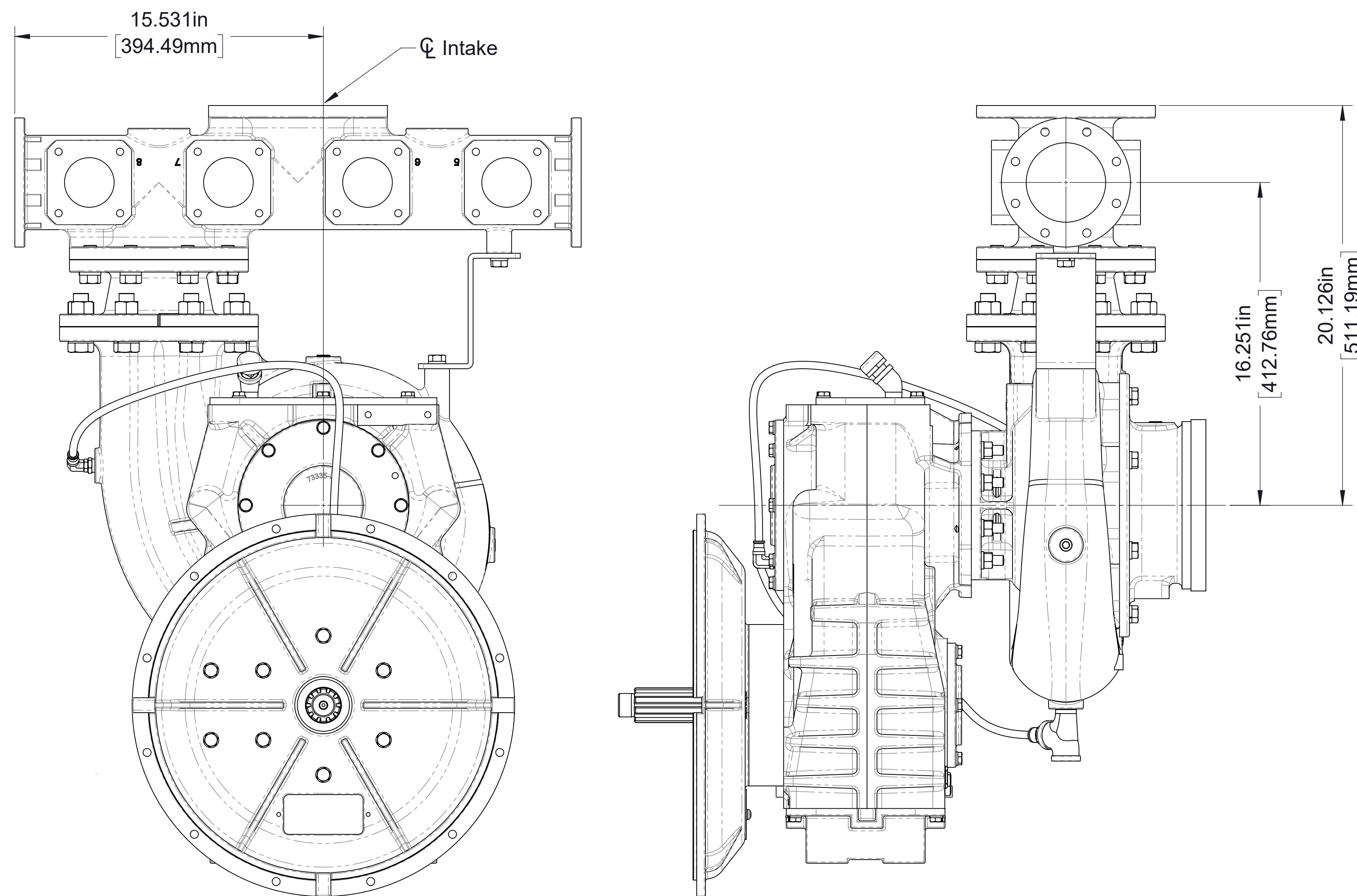
Angle Compensated

Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

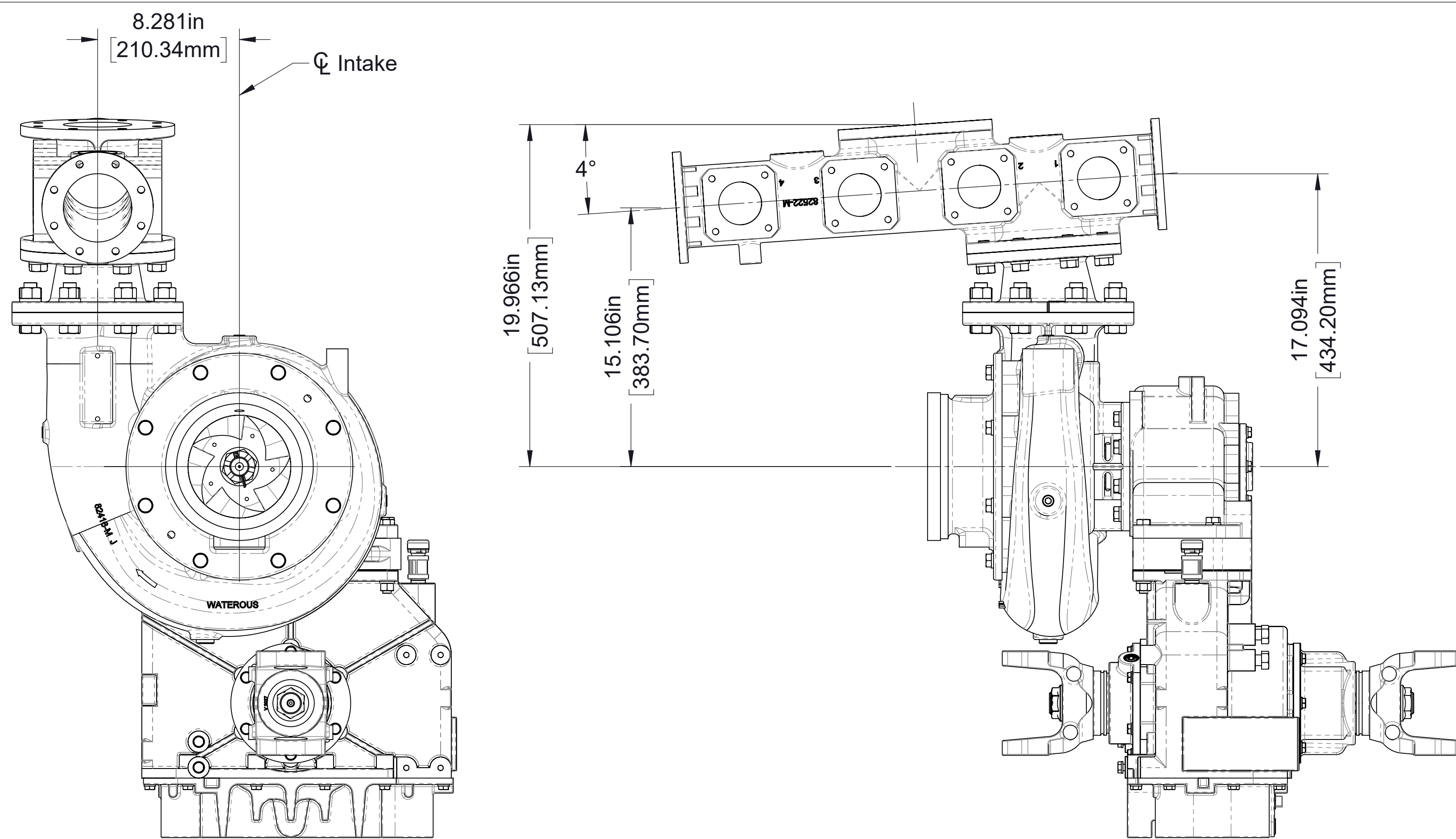
Manifold Pads

Manifold Mounted Perpendicular to Intake Model S100QC

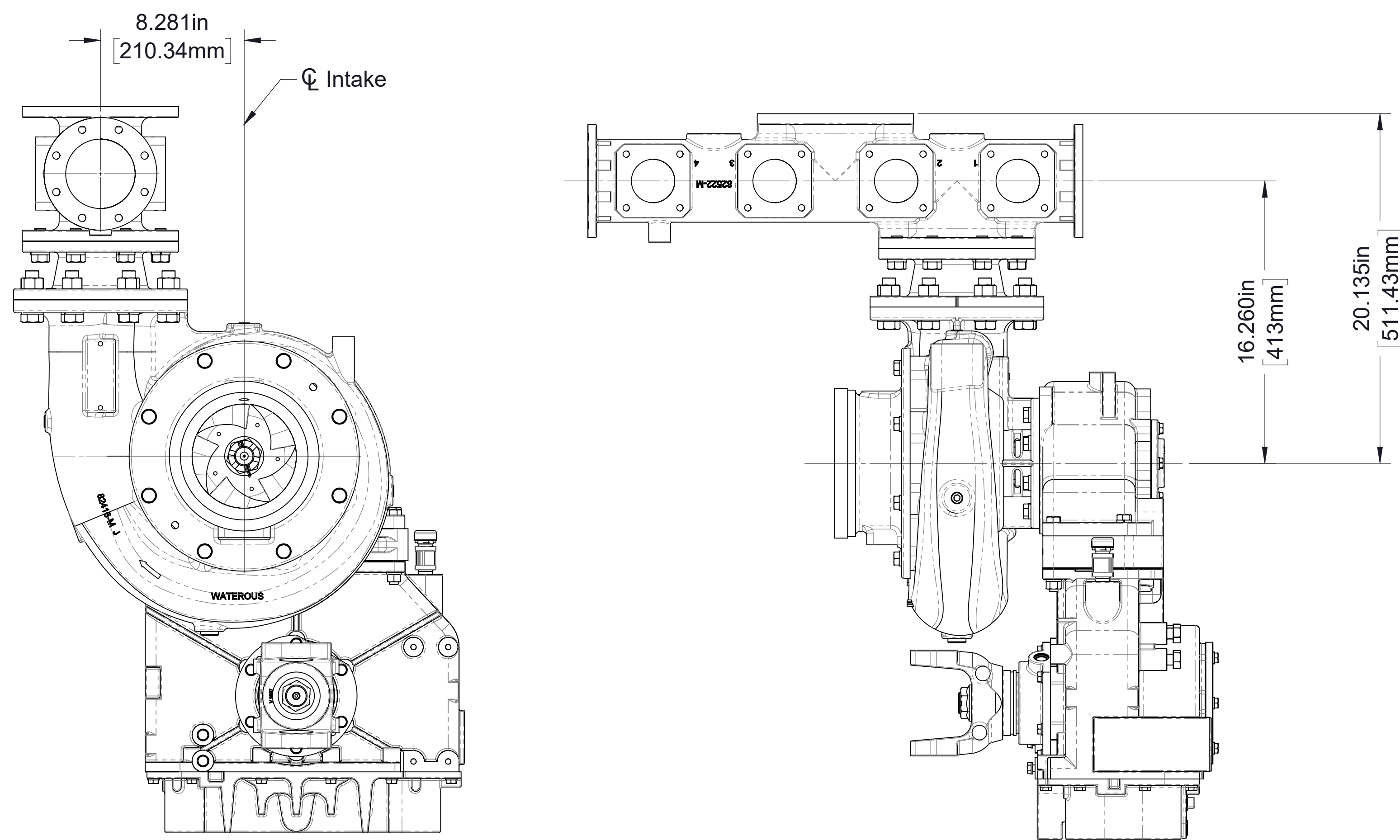
Direct engine mounted, verticle case
 Pump mounted on rear (output shaft side) of transmission
 Note: See page 6 for manifold dimensions not shown



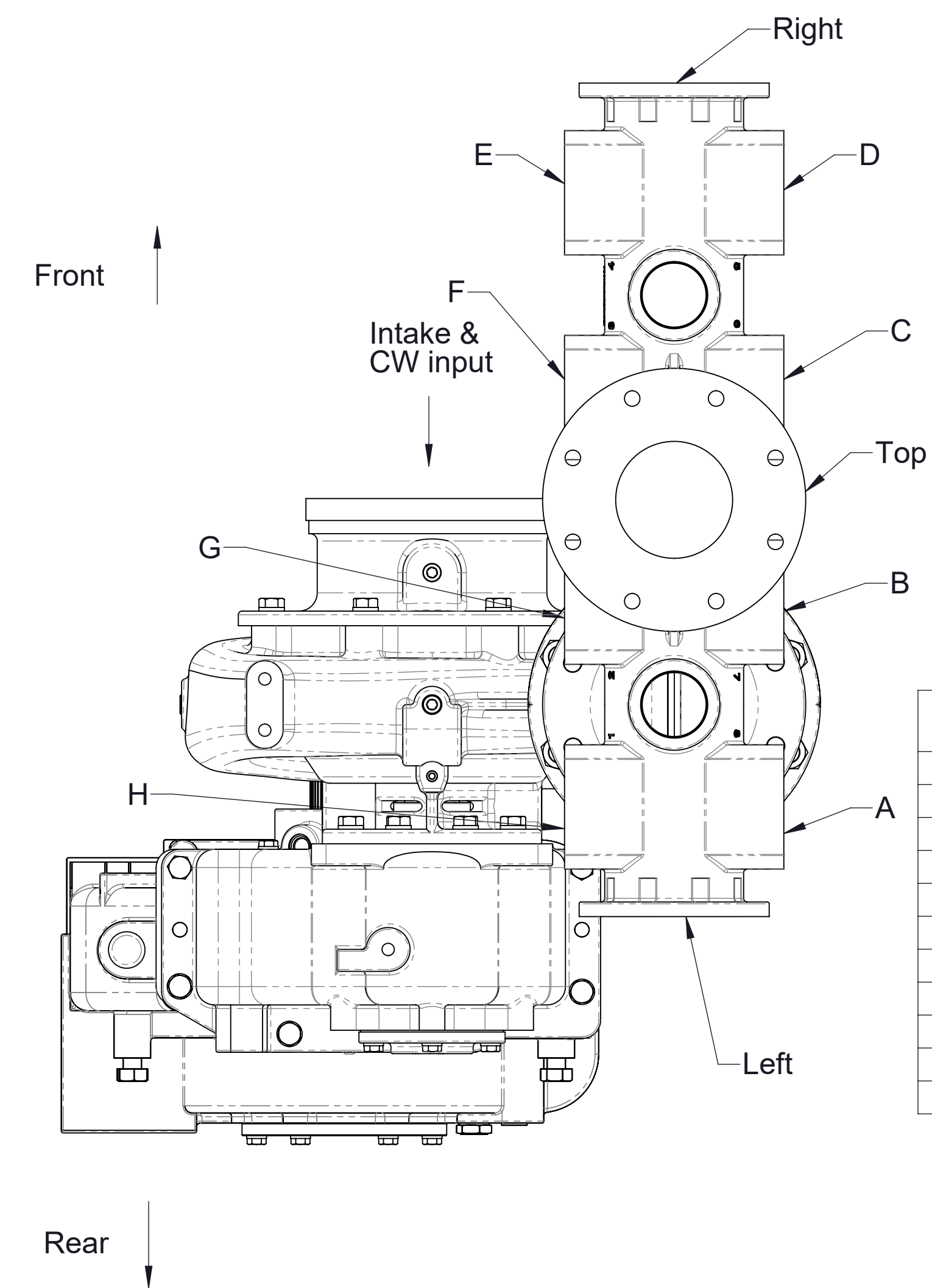
Non-Angle Compensated



Angle Compensated



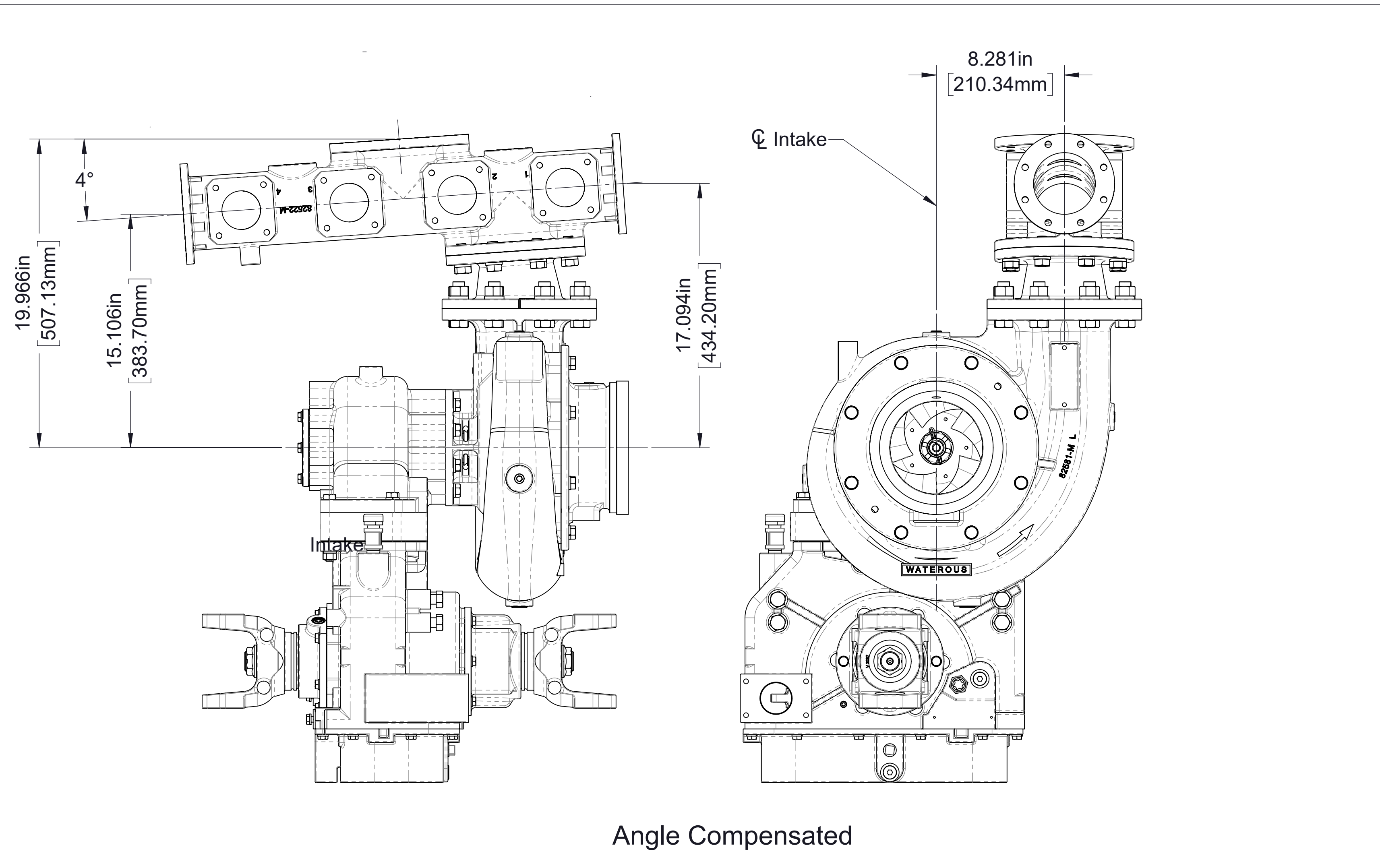
Non-Angle Compensated



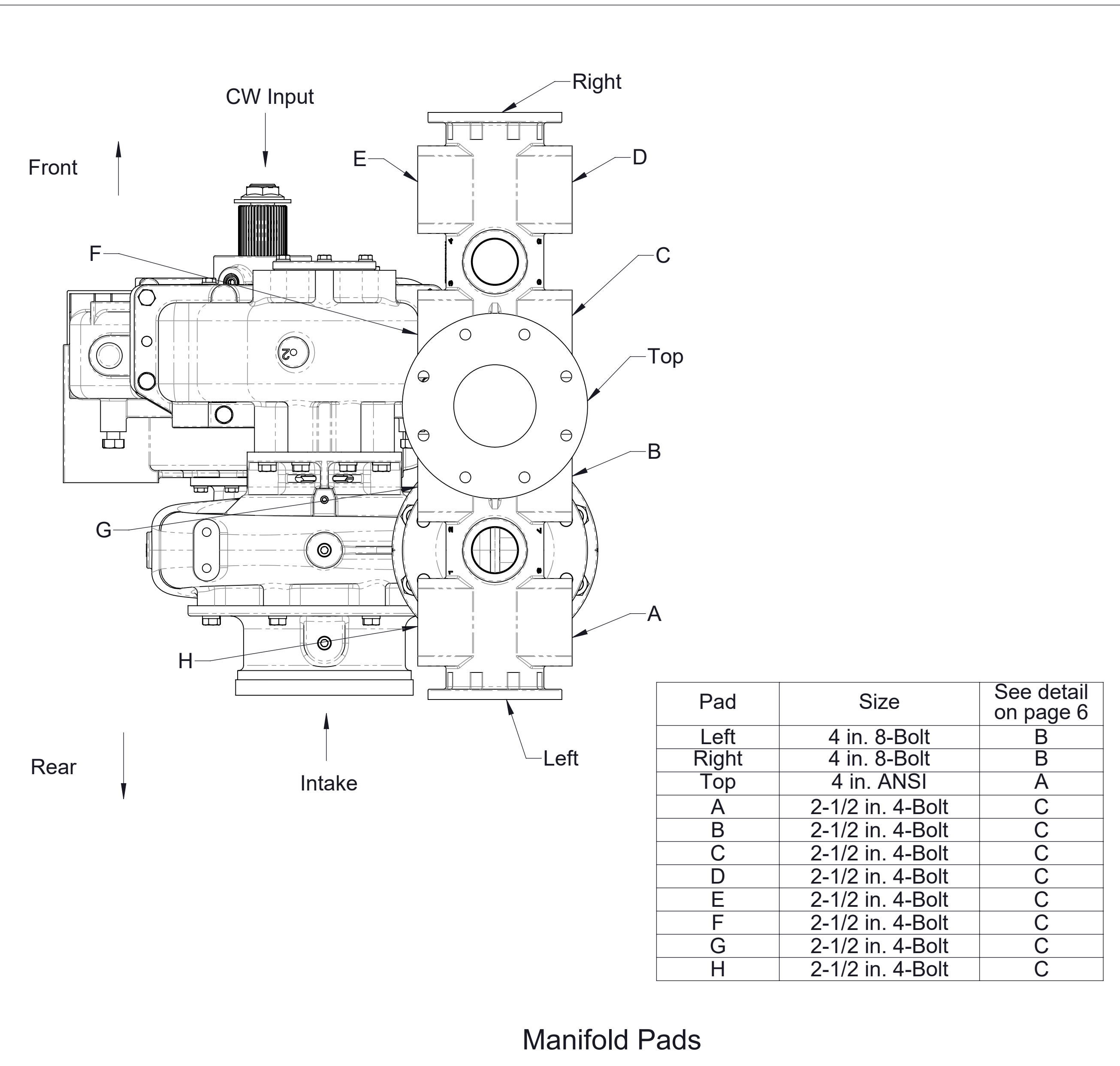
Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

Manifold Pads

Manifold Mounted Parallel to Intake Model S100C20
 Pump mounted on front (input shaft side) of transmission
 Note: See page 6 for manifold dimensions not shown

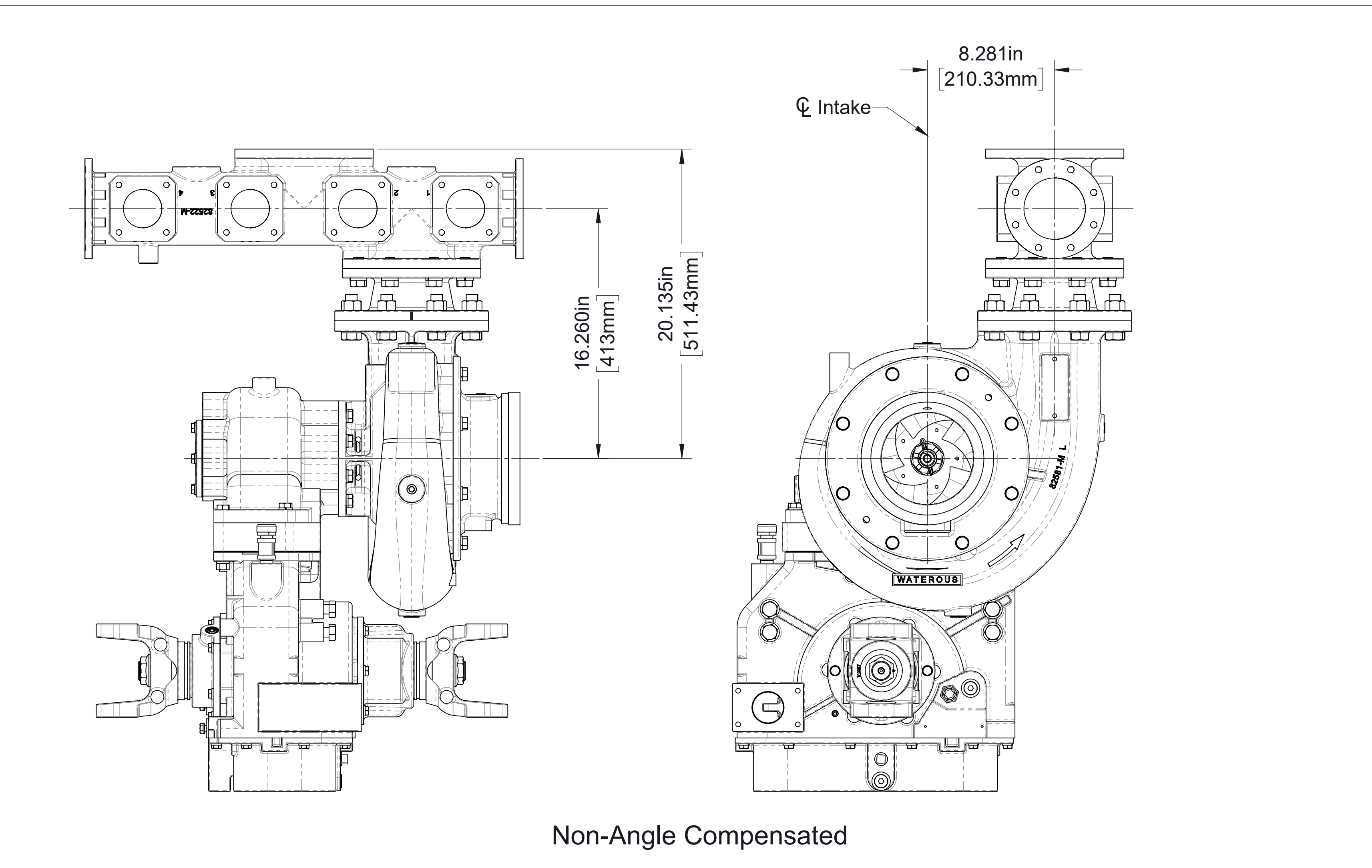


Angle Compensated

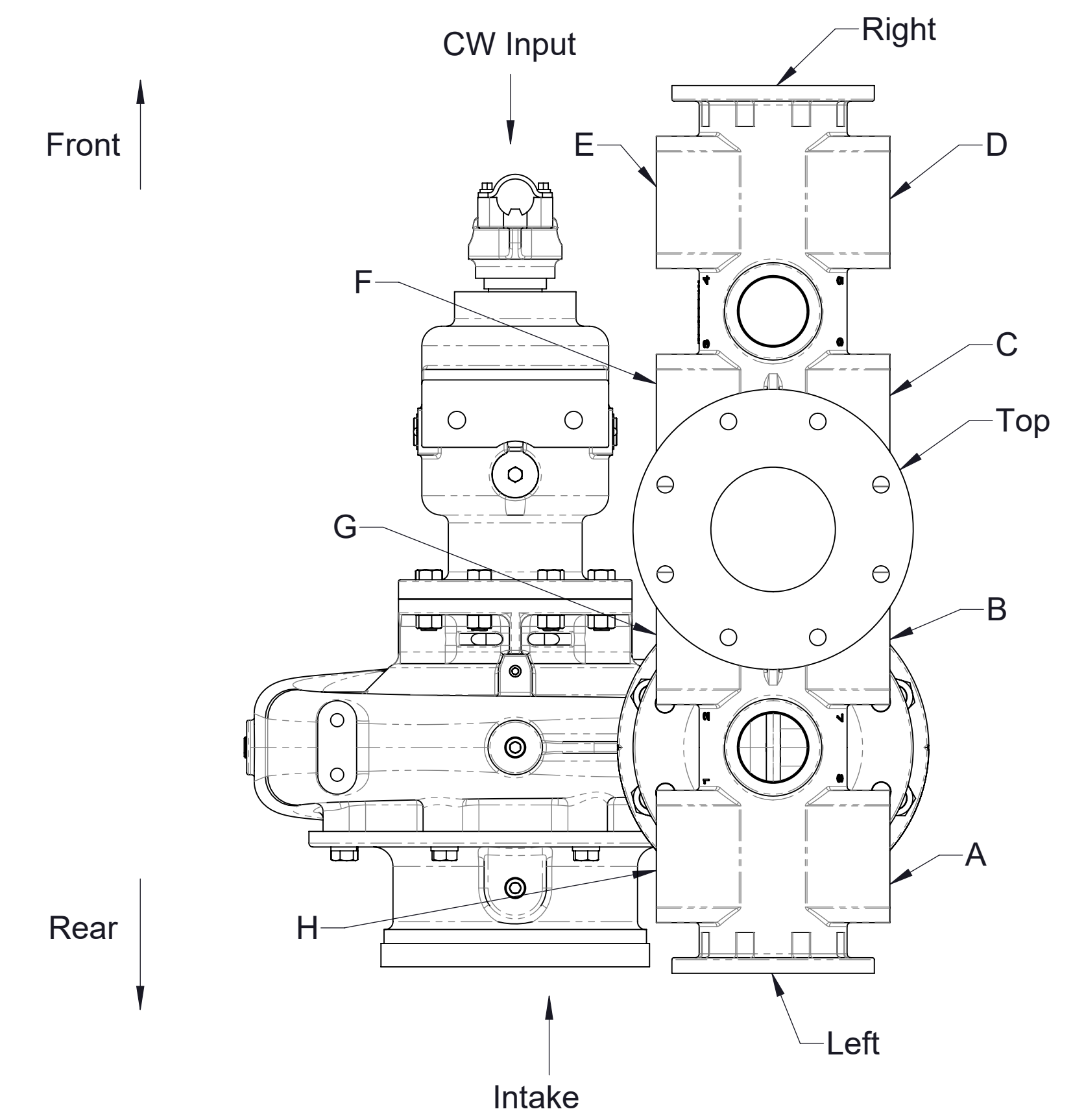
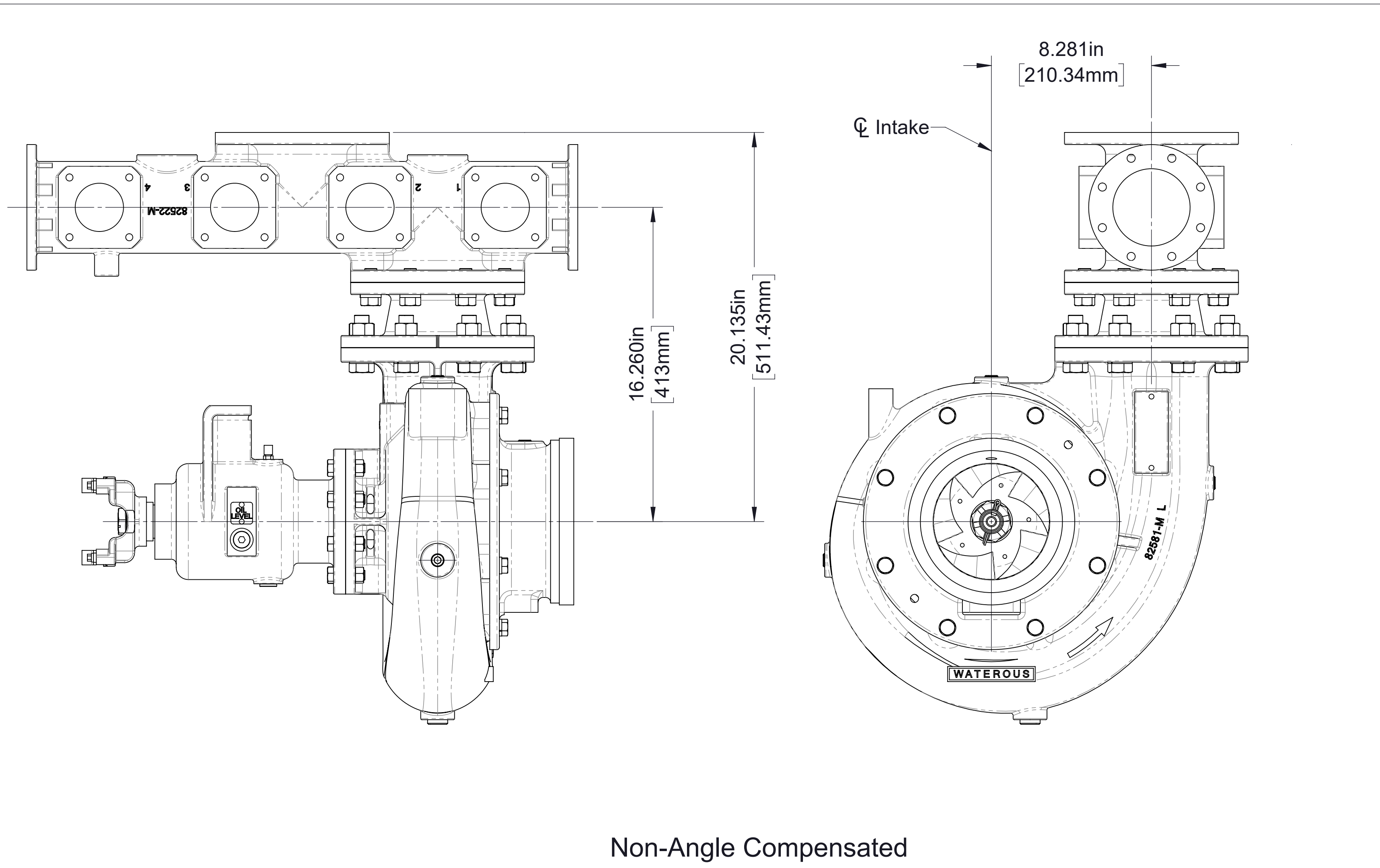
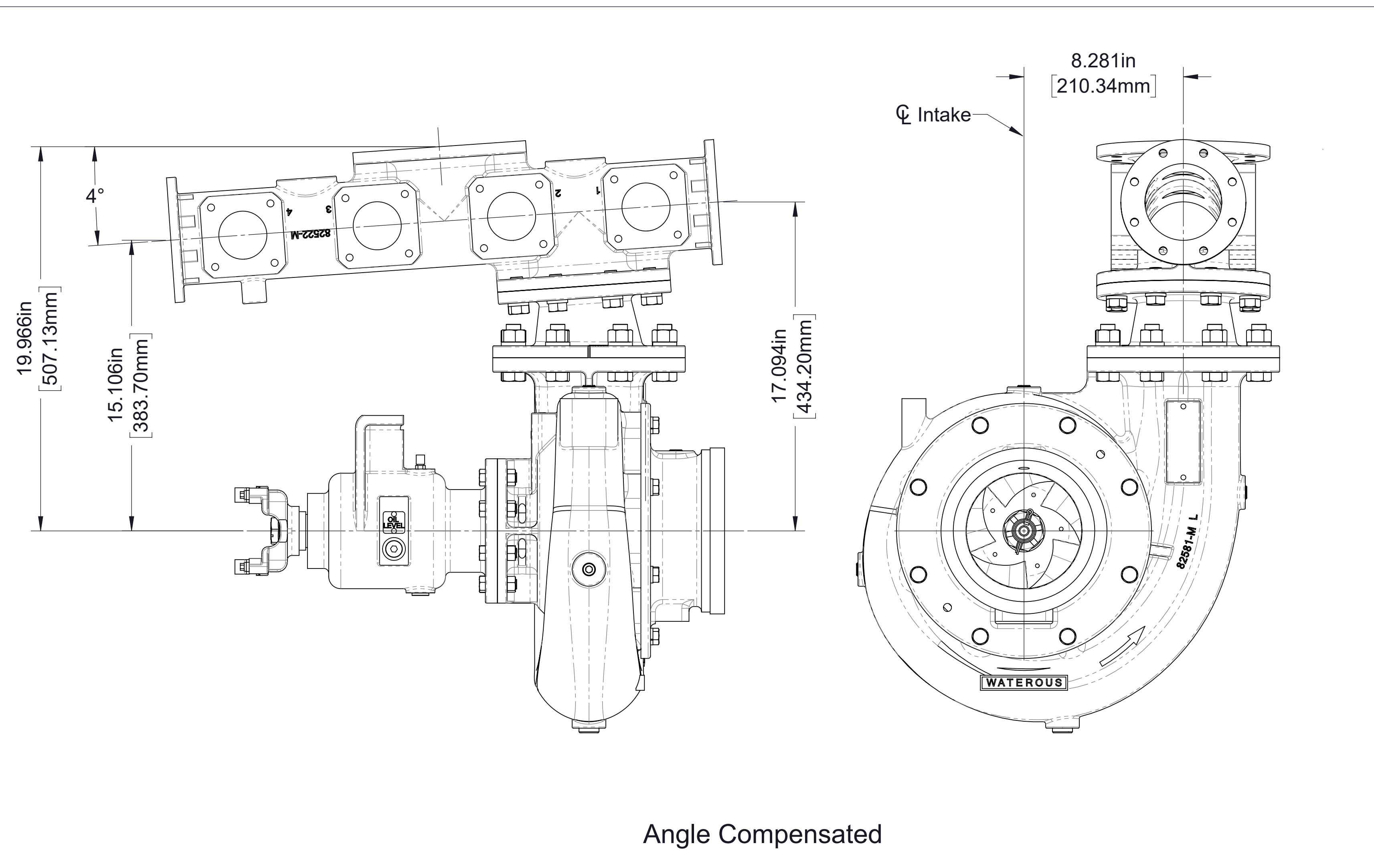


Manifold Pads

Manifold Mounted Parallel to Intake Model S100C20
 Pump mounted on rear (ouput shaft side) of transmission
 Note: See page 6 for manifold dimensions not shown



Non-Angle Compensated

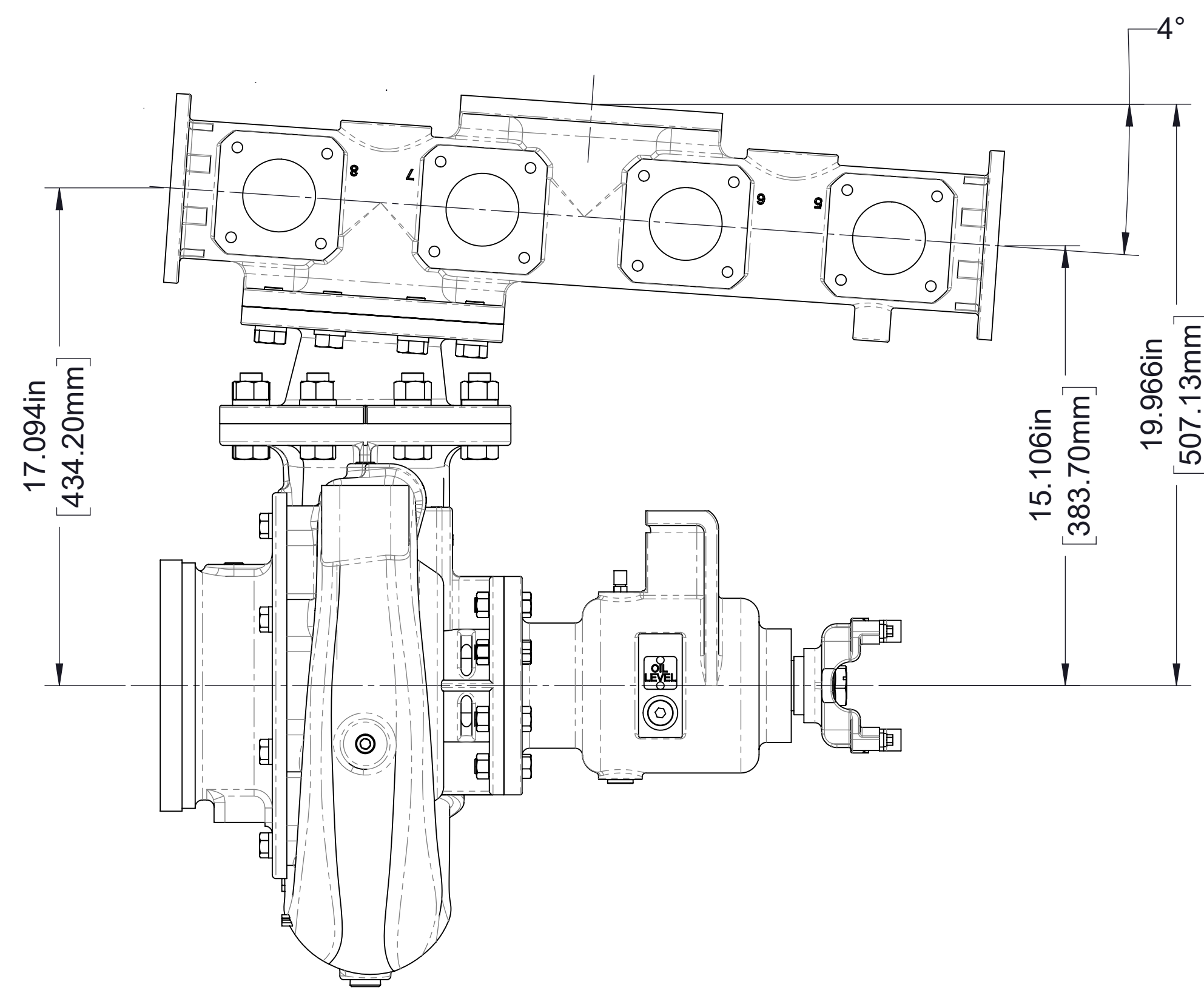
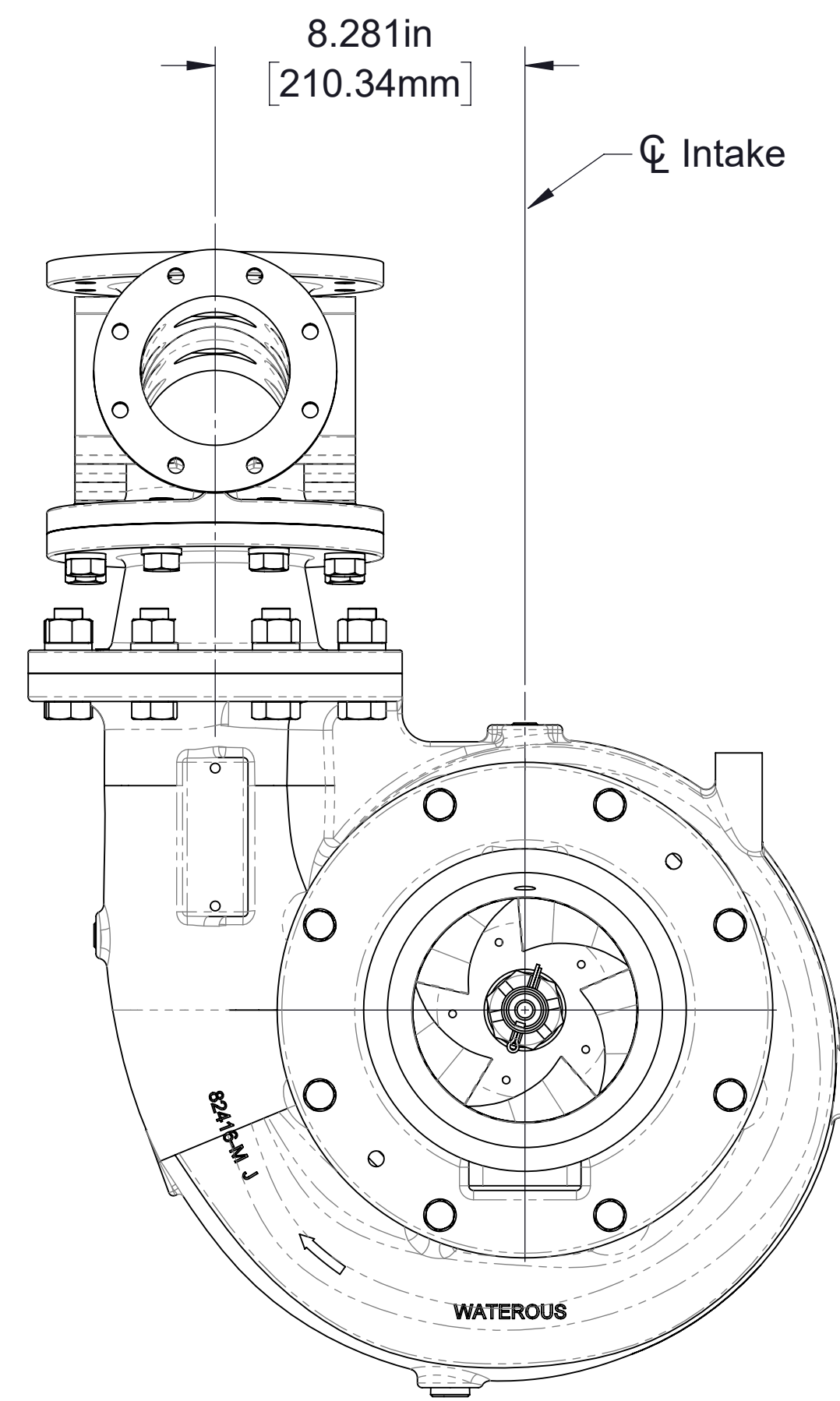


Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

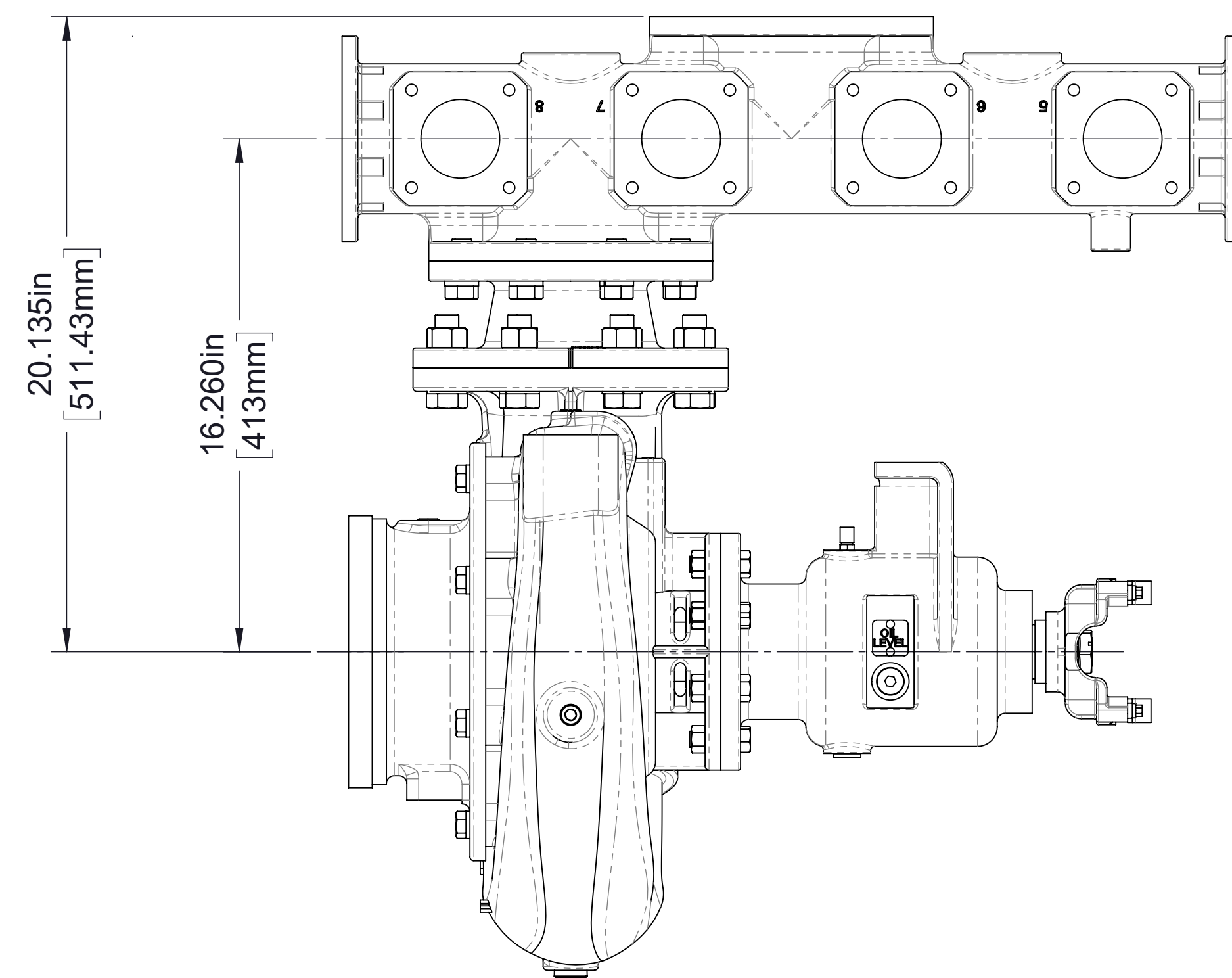
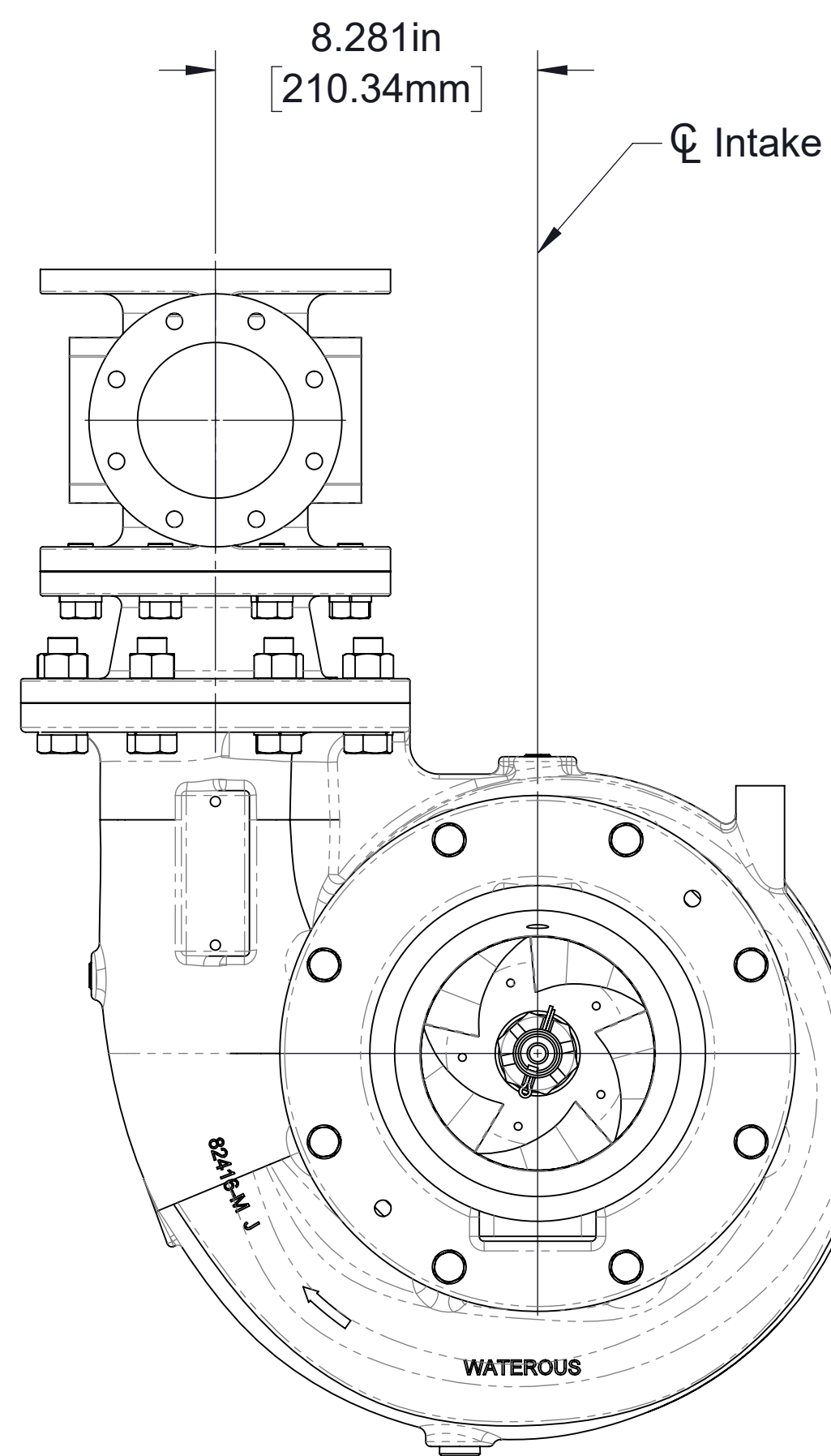
Manifold Pads

Manifold Mounted Parallel to Intake Model S100D

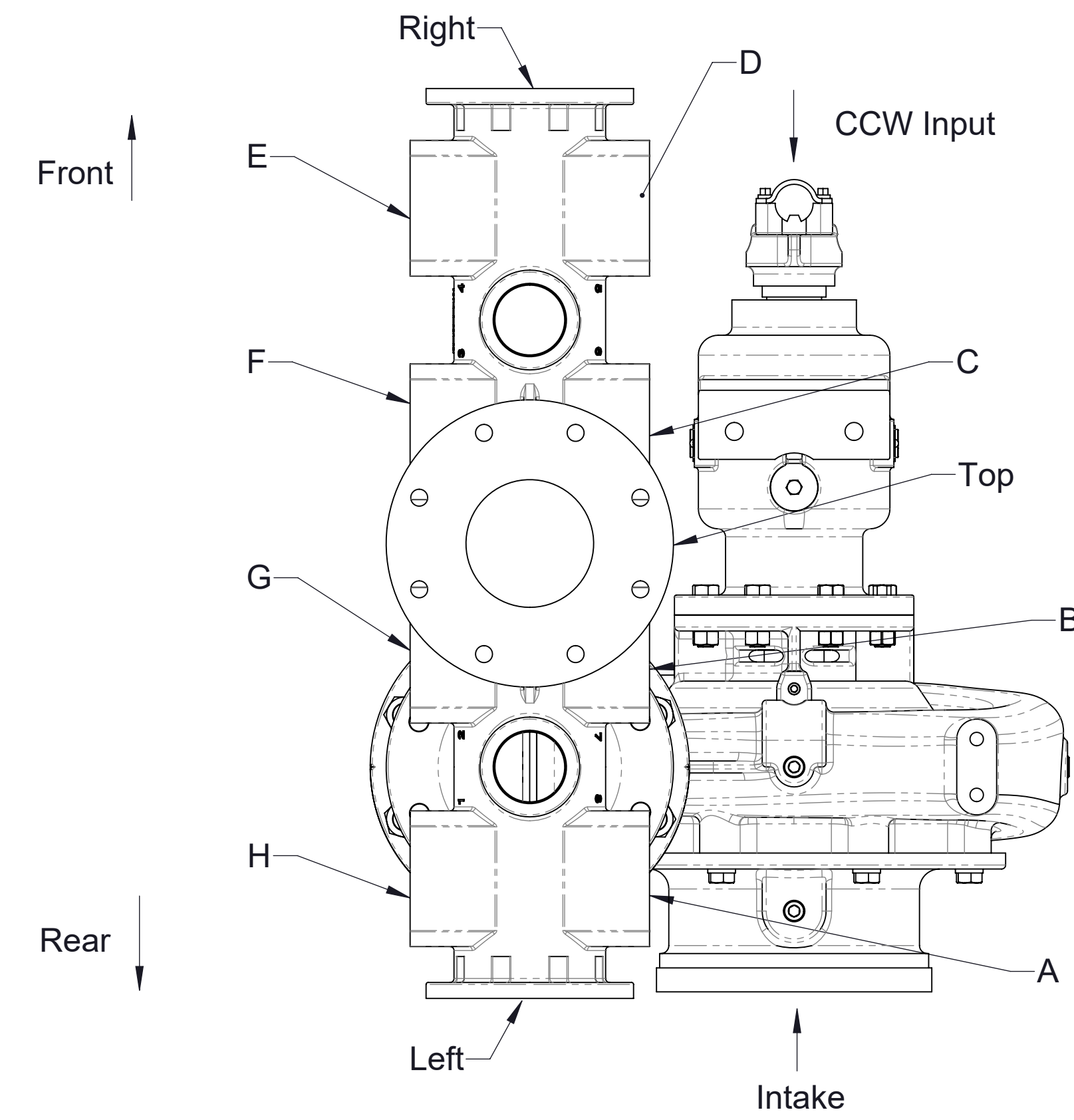
CW Input
Note: See page 6 for manifold dimensions not shown



Angle Compensated



Non-Angle Compensated



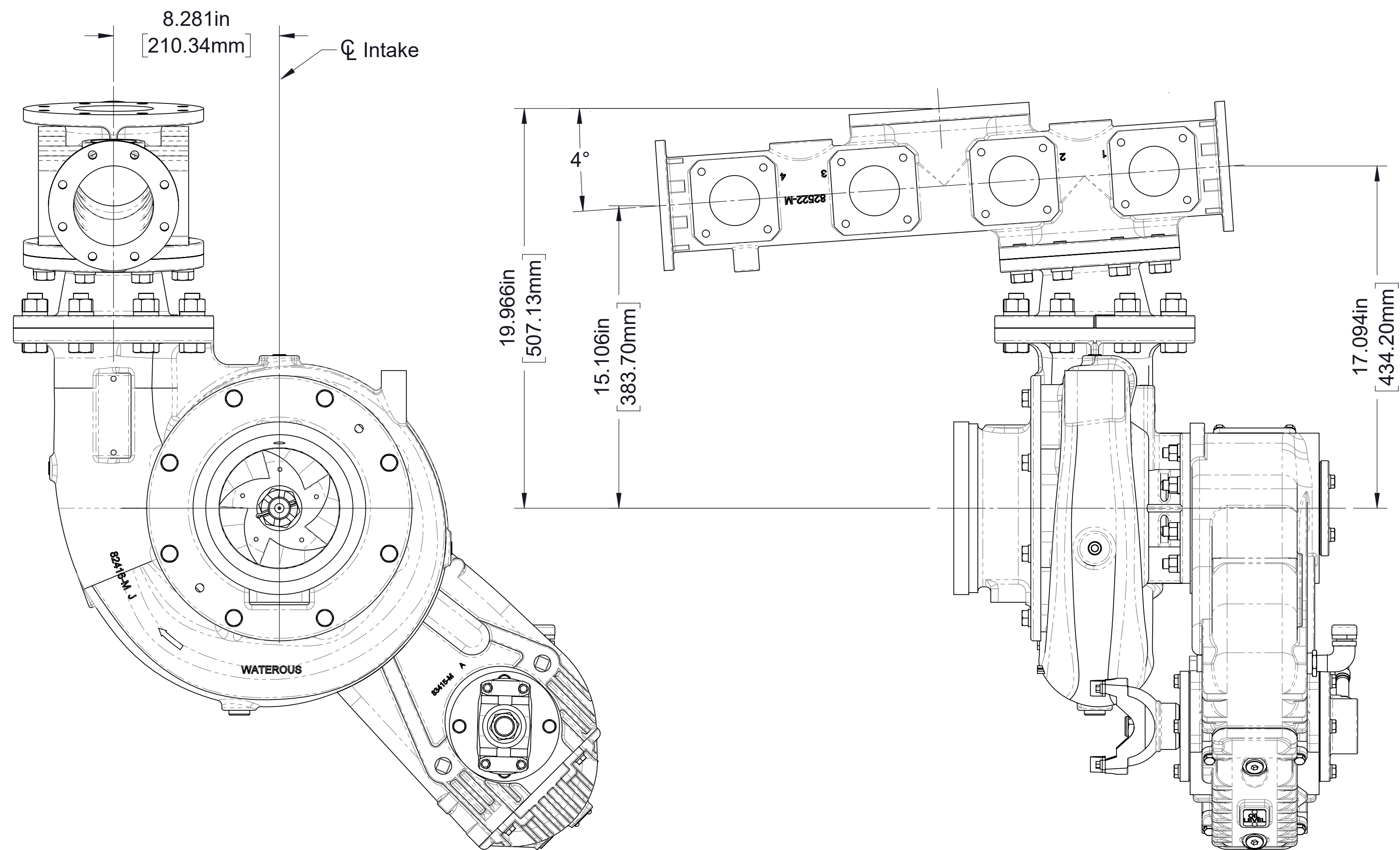
Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

Manifold Pads

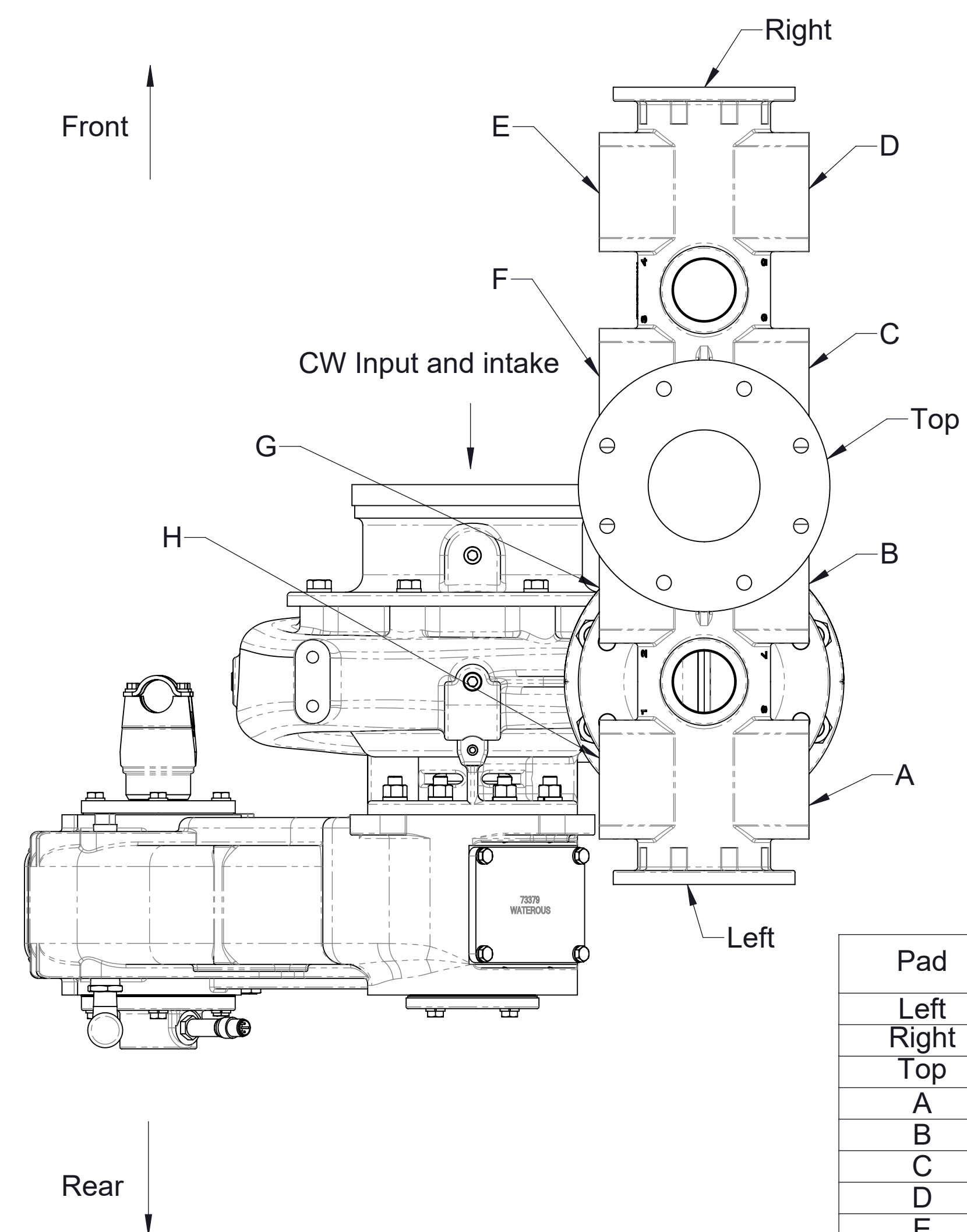
Manifold Mounted Parallel to Intake Model S100D

CCW Input

Note: See page 6 for manifold dimensions not shown



Angle Compensated

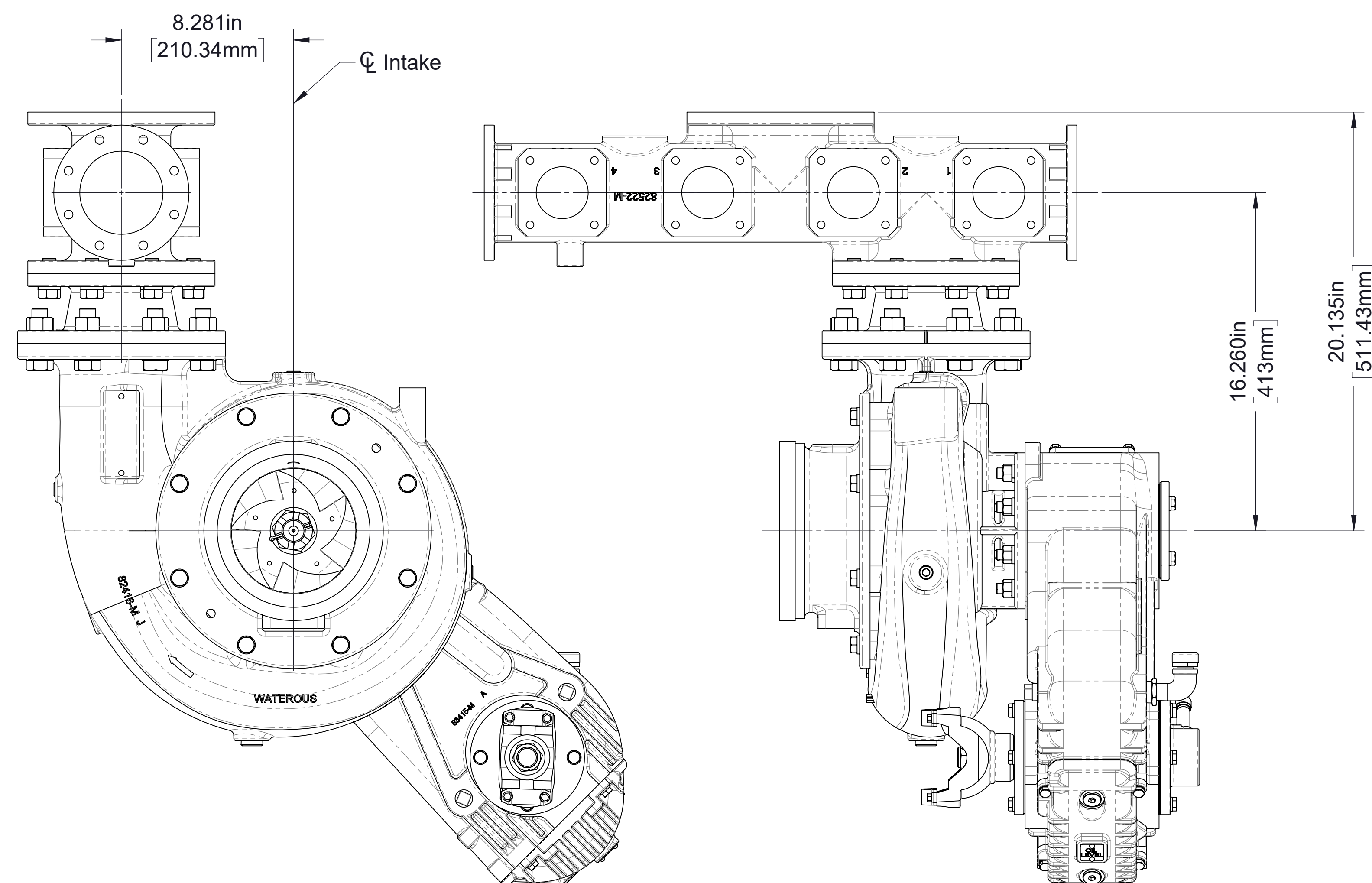


Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

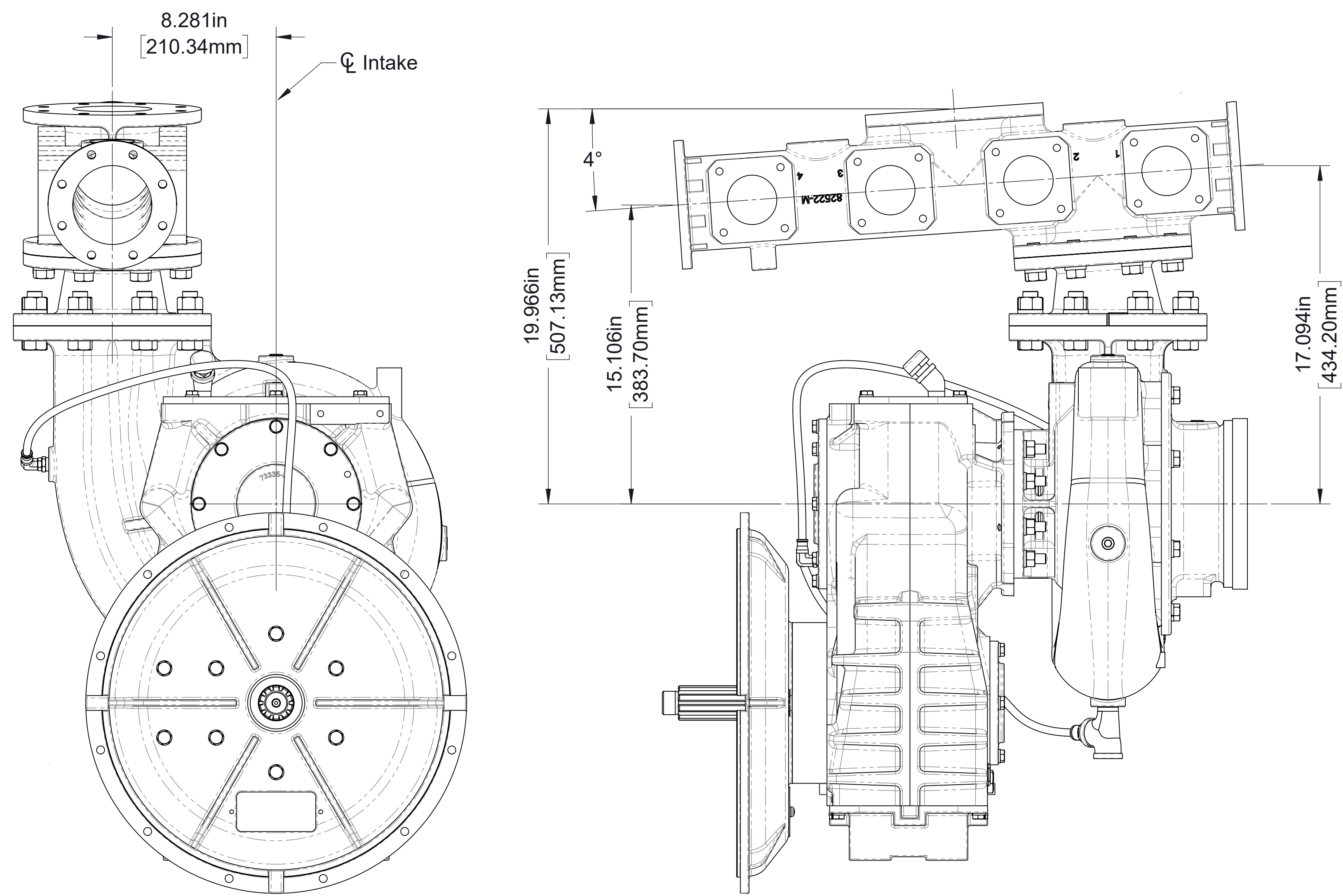
Manifold Pads

Manifold Mounted Parallel to Intake Model S100PA

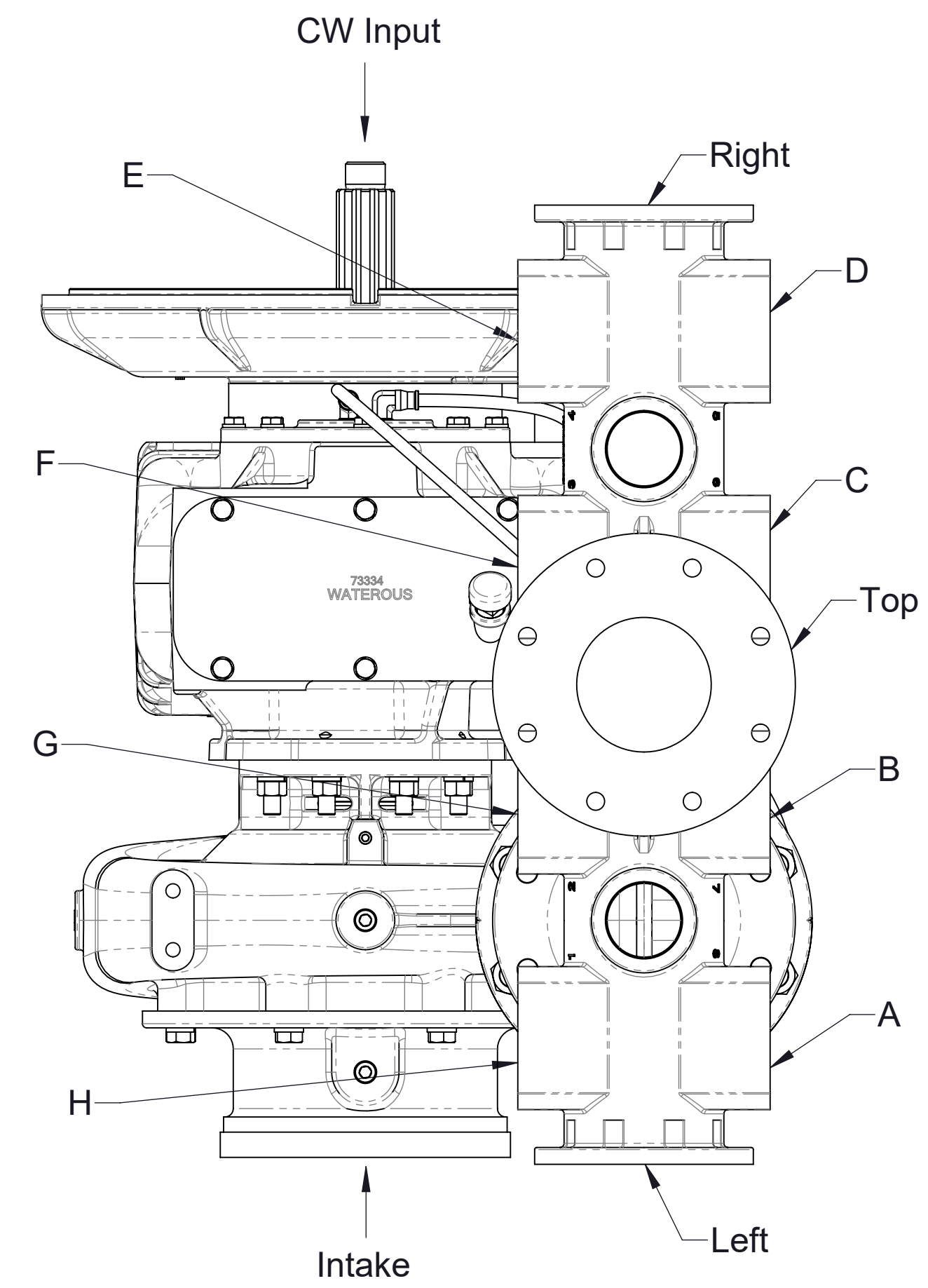
Pump mounted on front (input shaft side) of transmission
 Note: See page 6 for manifold dimensions not shown



Non-Angle Compensated

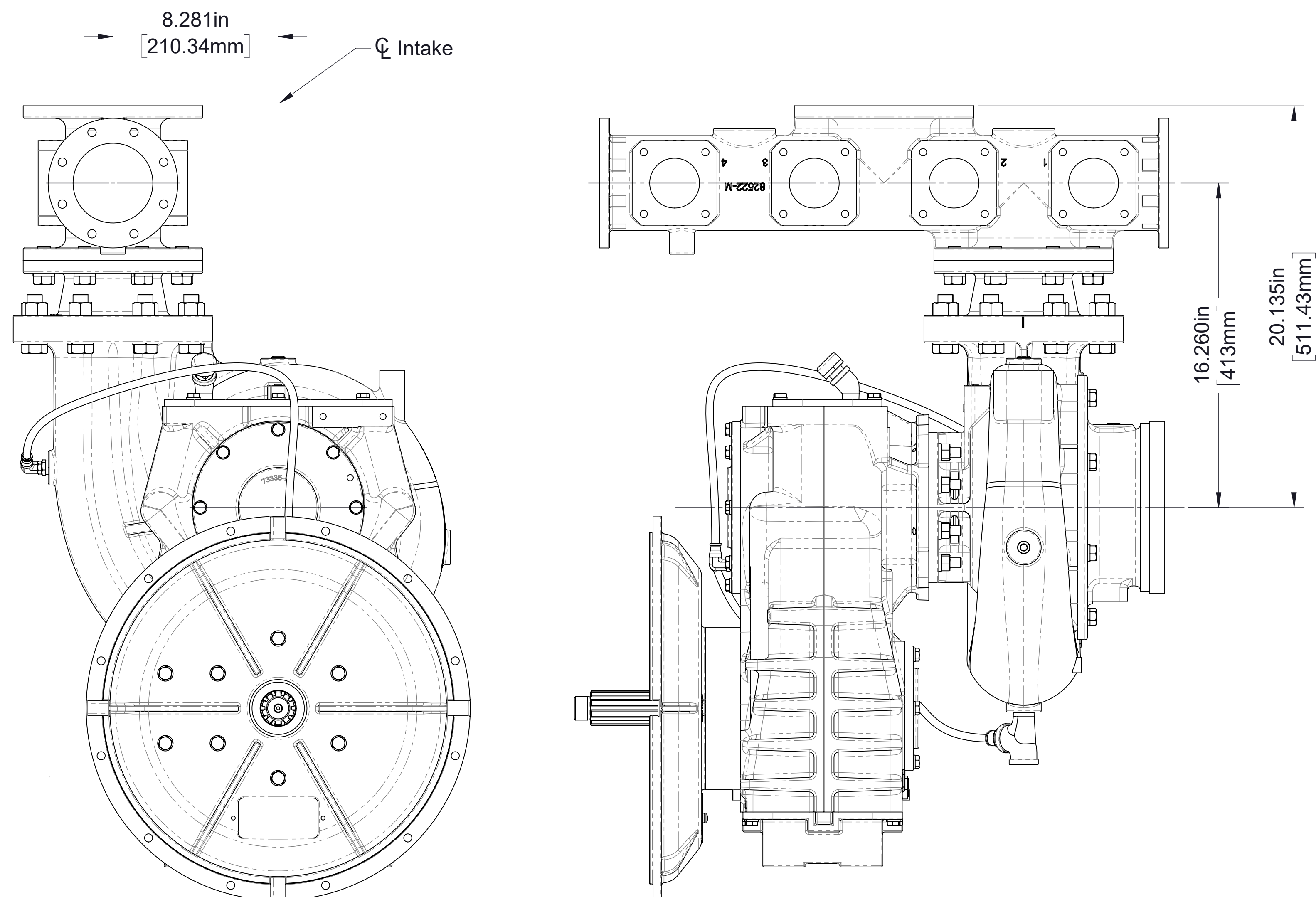


Angle Compensated



Pad	Size	See detail on page 6
Left	4 in. 8-Bolt	B
Right	4 in. 8-Bolt	B
Top	4 in. ANSI	A
A	2-1/2 in. 4-Bolt	C
B	2-1/2 in. 4-Bolt	C
C	2-1/2 in. 4-Bolt	C
D	2-1/2 in. 4-Bolt	C
E	2-1/2 in. 4-Bolt	C
F	2-1/2 in. 4-Bolt	C
G	2-1/2 in. 4-Bolt	C
H	2-1/2 in. 4-Bolt	C

Manifolds Pads



Non-Angle Compensated

Manifold Mounted Parallel to Intake Model S100QC

Direct engine mounted, verticle case
 Pump mounted on rear (output shaft side) of transmission
 Note: See page 6 for manifold dimensions not shown