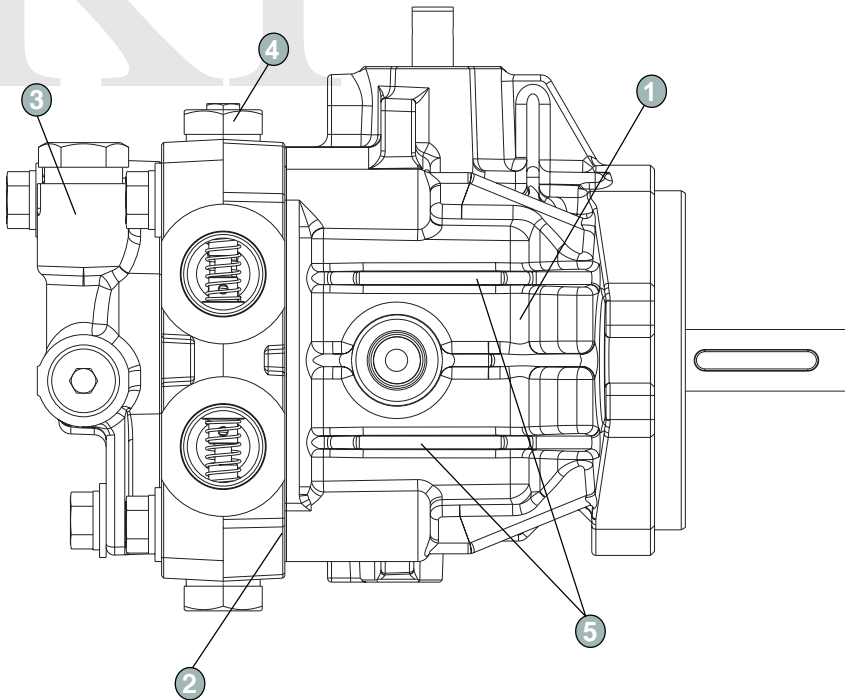


# FEATURES



- ① **Cylindrical Roller Bearing** supports the thrust load generated by the piston group.
- ② **Bronze-Coated Wear Plate** dissipates heat and transfers it to the case drain oil.
- ③ **High Volume Charge Pump** creates additional flow through the case drain, flushing hot oil from the pump.
- ④ **By-Pass Valve** enables free-wheeling when a non-operable machine needs to be moved.
- ⑤ **Cooling Fins** help dissipate heat into the atmosphere.

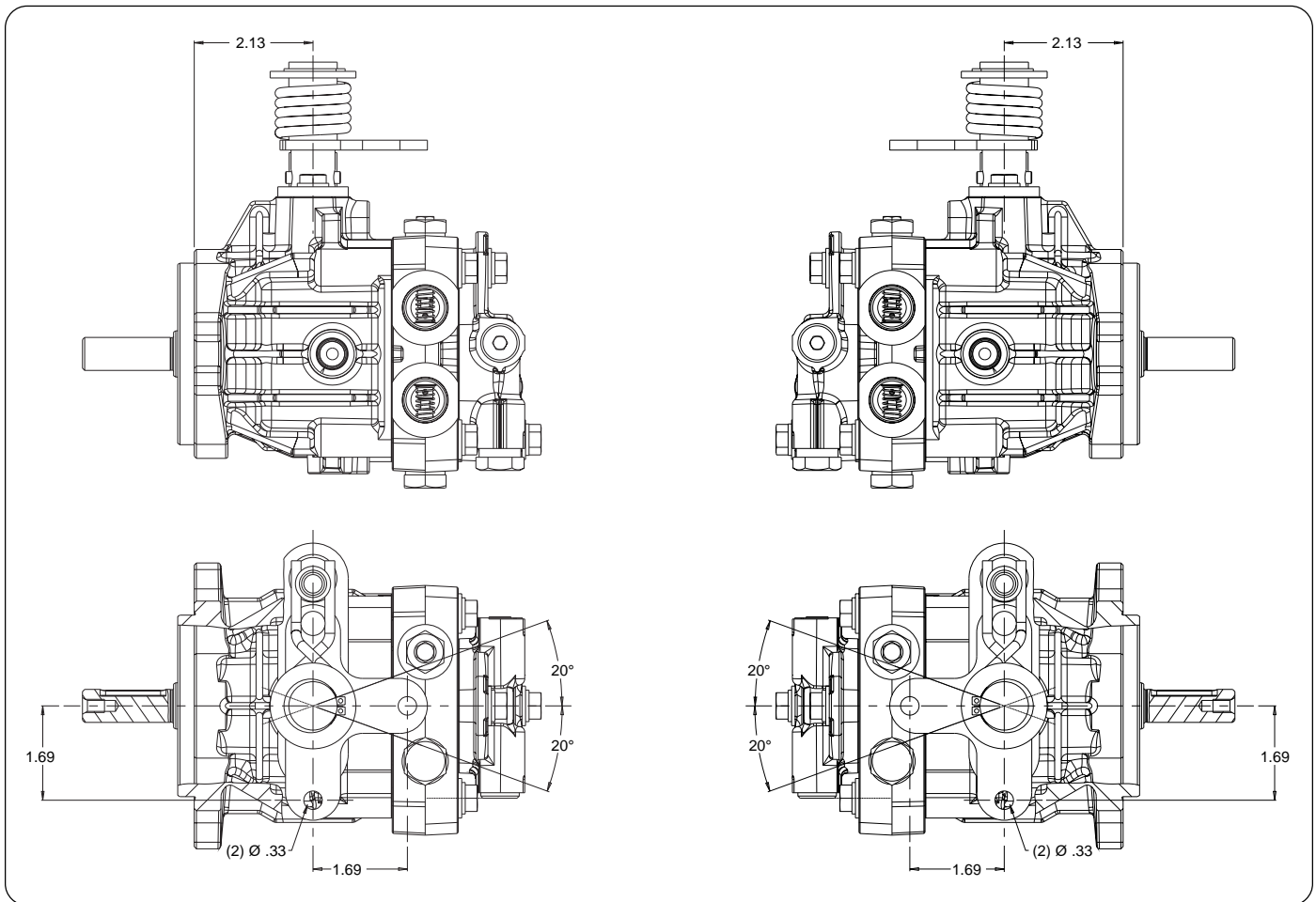
The KP Series of pump is the newest addition to our rapidly expanding product line. The product is a variable displacement, axial piston pump and is a natural compliment to the drive products historically offered by White Hydraulics. This product is ideally suited for the lawn and garden, and under 50 hp construction markets. Features and capabilities include minimum and maximum continuous speeds of 600 rpm and 3,600 rpm, respectively, industry standardized mounting flanges, pressure ratings that are comparable to competitive product offerings and the option of incorporating White Hydraulics' Shock Reduction Technology (SRT).



## SPECIFICATIONS

Code	Displacement in <sup>3</sup> /rev. (cc/rev.)	Max. Speed (rpm) - 1)Min 2)Max		Weight lb (kg)	Charge Pump in <sup>3</sup> /rev. (cc/rev.)	Max. Pressure psi (bar)- 1)Cont. 2)Inter. 3)Peak		
		1	2			1	2	3
010	.62 (10)	600	3600	7.9 (3.6)	.18 (3)	1425 (98)	2125 (147)	3500 (241)
013	.79 (13)	600	3600	7.9 (3.6)	.18 (3)	1425 (98)	2125 (147)	3500 (241)
018	1.10 (18)	600	3600	15.0 (6.8)	.18 (3)	1425 (98)	2125 (147)	3500 (241)

- Oil Temperature- Although the pumps use cooling fins to help dissipate heat, we recommend that the continuous system temperature be kept at or below 195°F (90°C). It can see an intermittent temperature of 212°F (100°C) and a peak temperature of 230°F (110°C).
- Viscosity Rating- We recommend use of a 60 SUS (10cSt) viscosity hydraulic oil at no more than 212°F (100°C).
- Filter- Due to the precise machining and exact tolerances in the pump, White Hydraulics recommends a filter rating of 20 Micron absolute.
- Return to Neutral- See figure below. (All dimensional information contained in this catalog are inch units.)



- Shock Reduction - Technology (SRT) - White Hydraulics has developed the SRT for motors used in conjunction with the KP Pumps. This technology reduces the effect of pressure spikes and resulting shock loads to the hydraulic drive system.
- Ordering Information- The KP needs to be application specific. Please contact White Hydraulics for ordering information.
- Input Shaft Direction- KP pumps can be configured with the input shaft to be powered in a clockwise or counterclockwise direction. The standard is counterclockwise. Input shaft rotation must be specified at time of order. Please consult White Hydraulics.

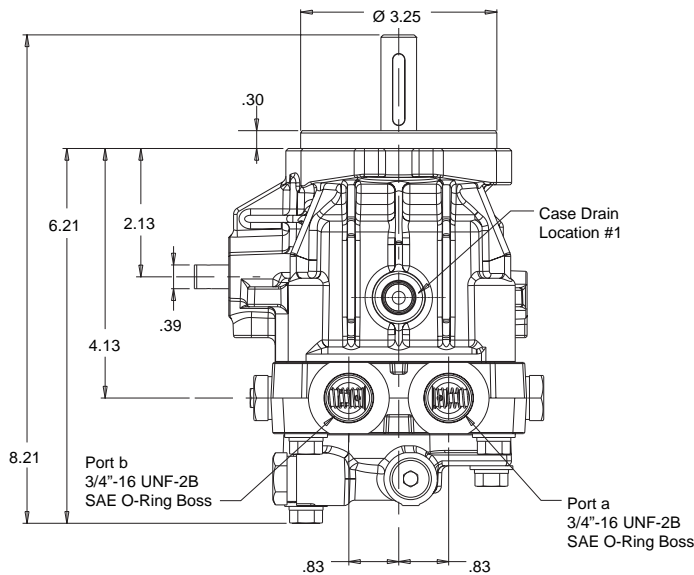
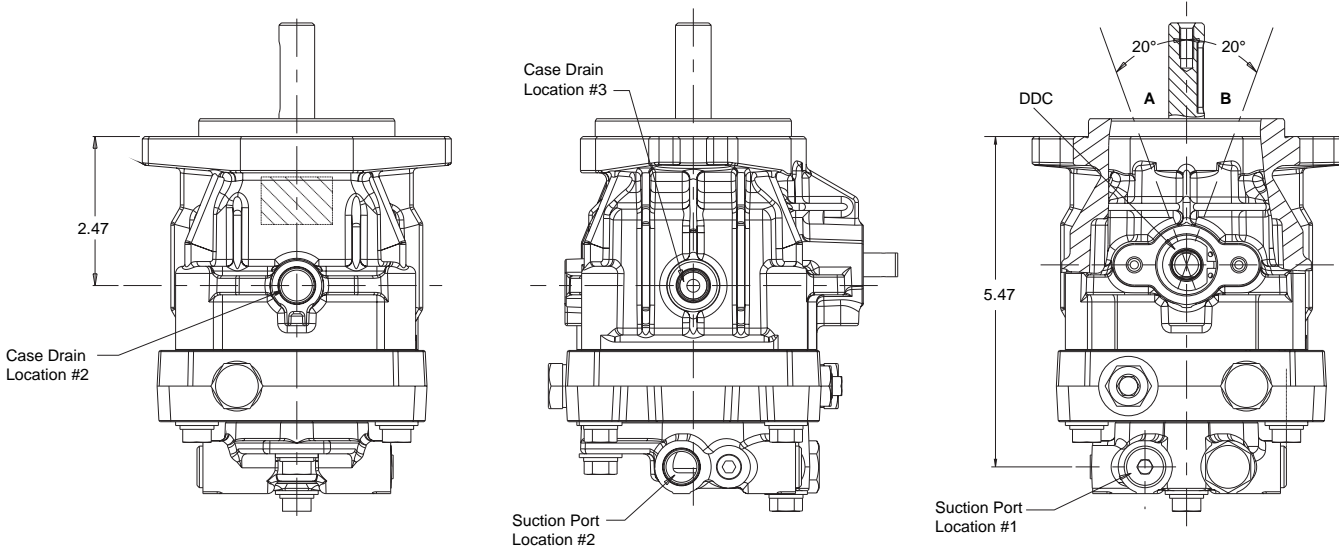
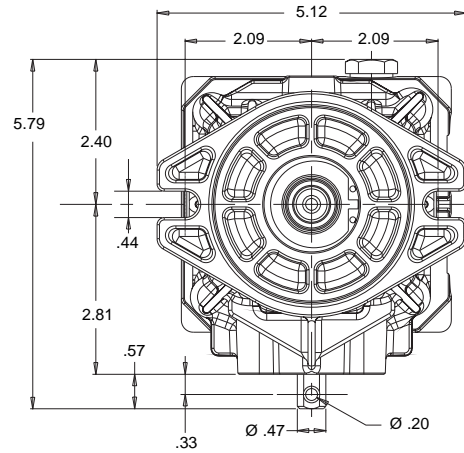
# 101

## 10cc & 13cc RIGHT HAND PUMP

### INPUT SHAFT ROTATION

Flow Direction	Counterclockwise		Clockwise		
	DDC*	A	B	A	B
Port a	Out	In	In	In	Out
Port b	In	Out	Out	Out	In

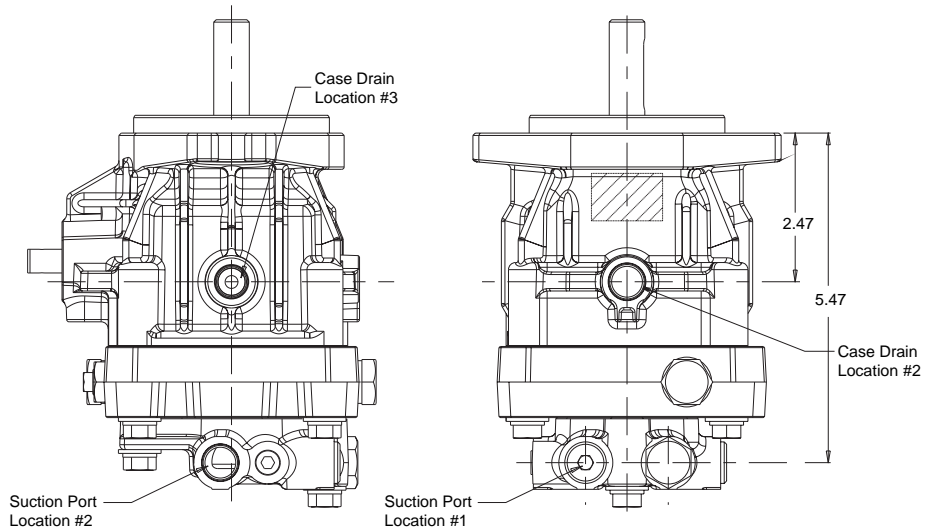
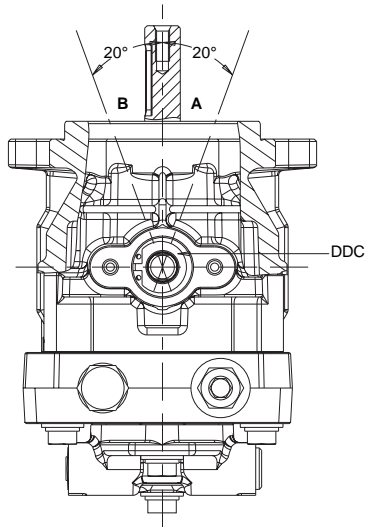
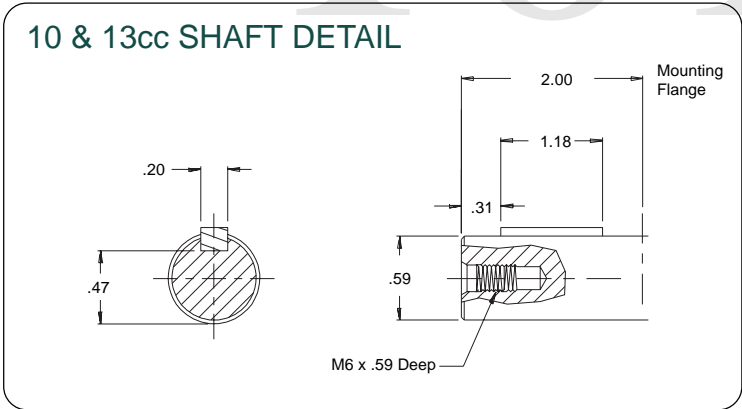
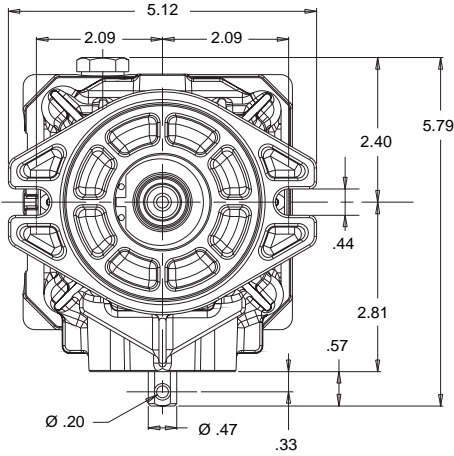
\* Direct Displacement Control



Suction Ports and Drain Ports are 9/16" -18 UNF SAE O-Ring

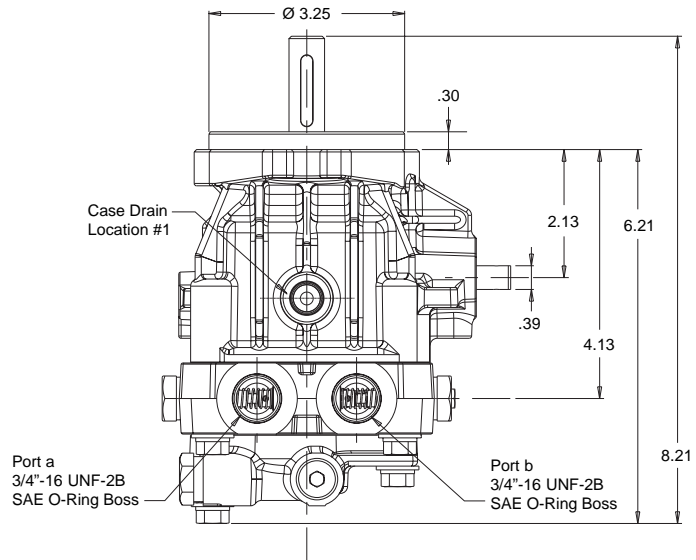
Left and Right Hand Pumps are determined by the location of the DDC when looking at the side of the pump with Ports a and b while the input shaft is facing down.

# 10cc & 13cc LEFT HAND PUMP



Suction Ports and Drain Ports are 9/16" -18 UNF SAE O-Ring

Left and Right Hand Pumps are determined by the location of the DDC when looking at the side of the pump with Ports a and b while the input shaft is facing down.



# 101

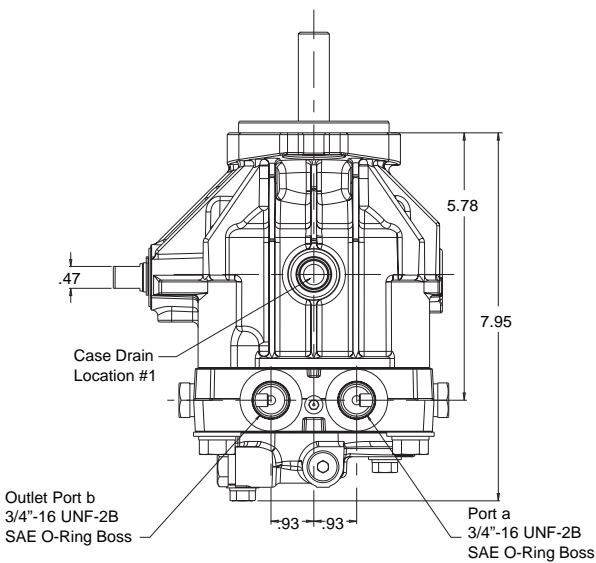
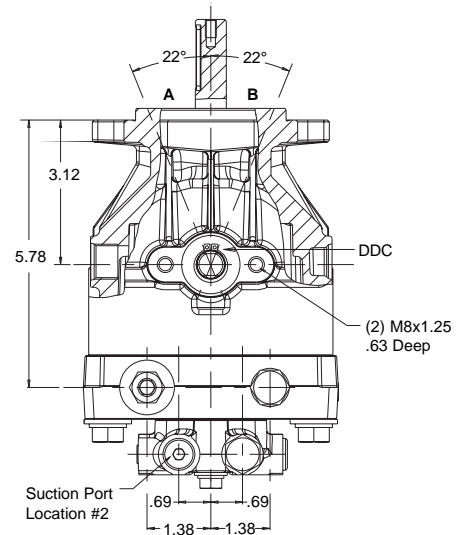
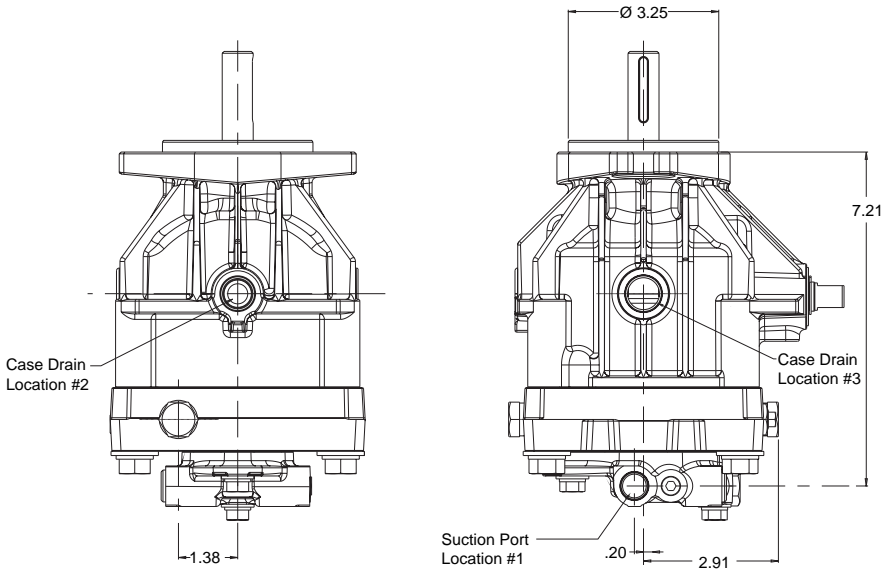
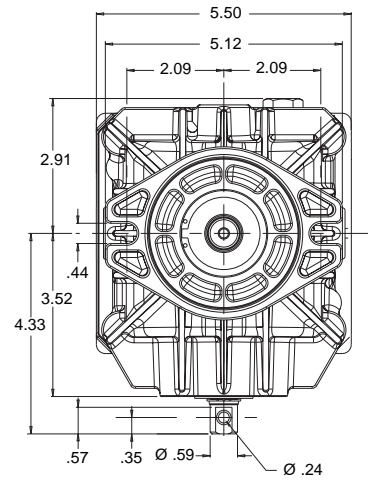
## 18cc RIGHT HAND PUMP



### INPUT SHAFT ROTATION

Flow Direction	Counterclockwise		Clockwise		
	DDC*	A	B	A	B
Port a	Out	In	In	In	Out
Port b	In	Out	Out	Out	In

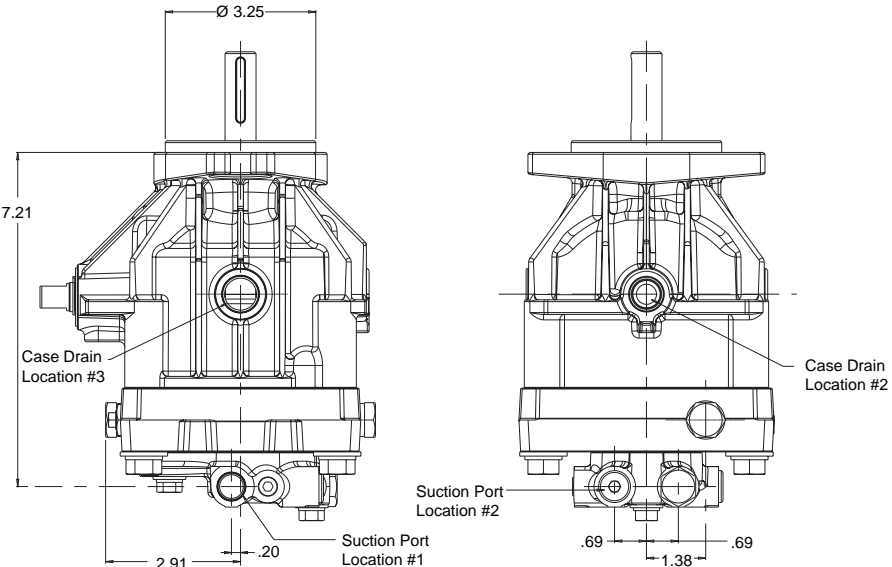
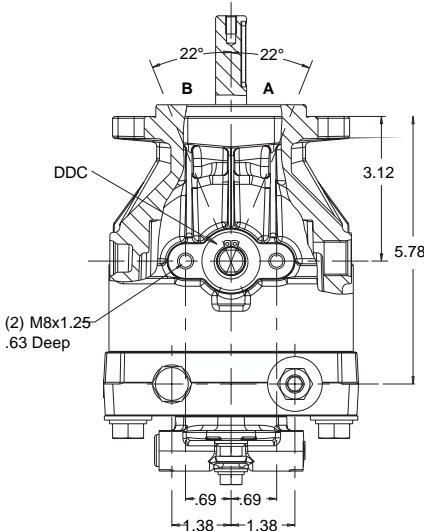
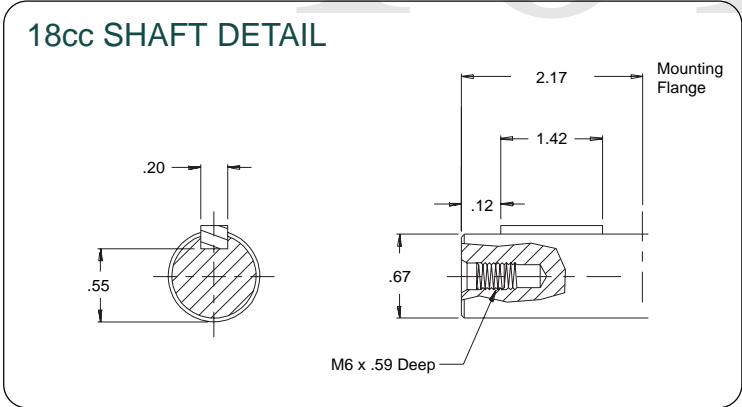
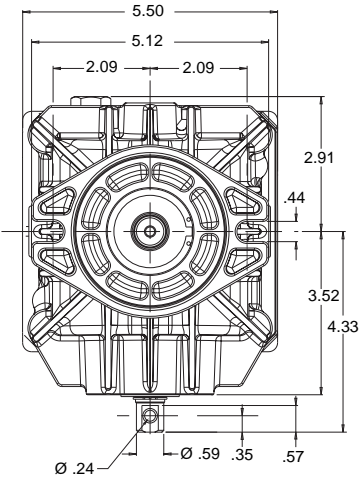
\* Direct Displacement Control



Suction Ports and Drain Ports are 9/16" -18 UNF SAE O-Ring

Left and Right Hand Pumps are determined by the location of the DDC when looking at the side of the pump with Ports a and b while the input shaft is facing down.

## 18cc LEFT HAND PUMP



Suction Ports and Drain Ports are 9/16" -18 UNF SAE O-Ring

Left and Right Hand Pumps are determined by the location of the DDC when looking at the side of the pump with Ports a and b while the input shaft is facing down.

