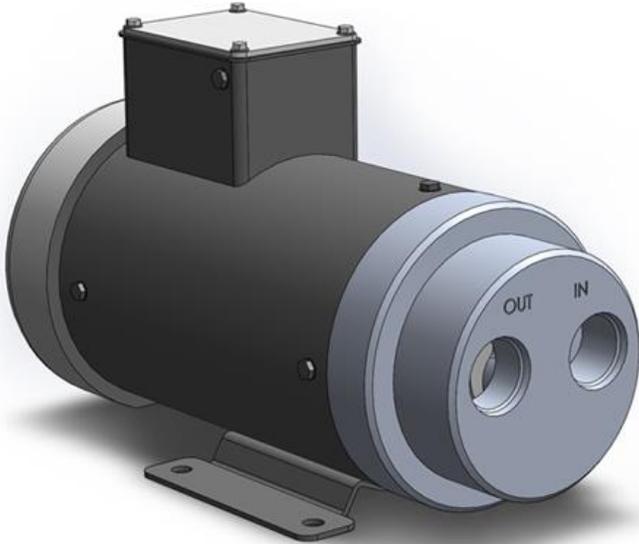




XD-9 Whisper Vane Transfer Pump

Compact, Heavy Duty, Industrial, Quality

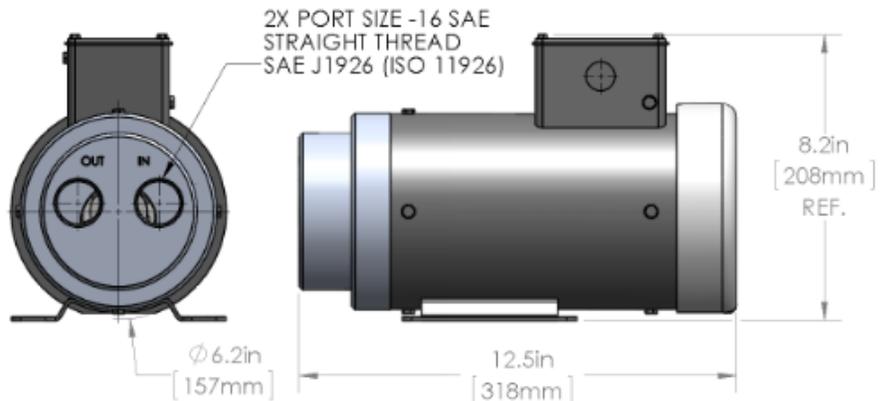
- 1 HP Motor
- Flow rate up to 9 GPM or 34 LPM
- Pressure up to 100 psi or 6.9bar
- Unique Whisper-Vane design: Direct Shaft Coupling, Simple, Reliable, Efficient, Self Priming, Quiet Running, Compact, Long Life.



Feature and Specifications Comparison	60Hz	50Hz
Operating voltage	220-240/440-480	180-200/360-400
Flow rate at 30 psi (2 bar)	9 GPM (34 LPM)	28 LPM
Rated Pressure	100 psi (6.9 bar)	
Whisper-Vane positive displacement technology, Self Priming	>5ft (1.5m)	
Pressure at pump inlet may not be lower than:	-7.5 PSIG (-.5 barg)	
SAE straight thread O-ring Ports (J1926 ISO 11926) (Not compatible with pipe thread)	-16 (1" or 25mm)	
Max Ambient air temperature	104°F (40°C)	
Rated current in Amps.	3.2/1.6	3.8/1.9
Motor service factor	1.0	
Max oil temperature	392°F (200°C)	
Max oil viscosity	~1,000-1,200 cSt	

Wetted Materials:

- Carburized Carbon Steel
- Anodized Aluminum
- Viton



VARNA Products

4305 Business Dr.
Cameron Park, CA 95682, USA

www.VarnaProducts.com

1 (888) 676-7770

+1 (530) 676-7770 (International)



General

The XD9 pump delivers up to 9 gpm (34 l/m) of oil flow. It is a self-priming and quiet-running vane pump for use in a wide variety of transfer or circulating applications with non-corrosive fluids such as oils and coolants. It can handle fluids with poor lubricity or low film strength and produce up to 100 psi (6.9 bar) pressure.

Plumbing Considerations

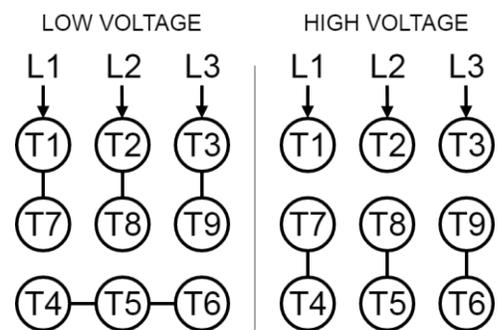
Excessive pressure drop caused by small pipes can be detrimental to system performance. Relative to 'hydraulic pumps' this is a high flow, low-pressure pump, optimized for efficiency in transfer applications. Small suction hoses/pipes will starve the pump and reduce output flow by causing cavitation. Small pressure pipes will create excessive backpressure that will exceed the rating of the pump. Therefore, elbows and long runs of pipe should be avoided. Each elbow and each inch of pipe has a cumulative effect. Plumbing losses with cold or high viscosity fluid can easily add up to a significant percentage of available pressure when the plumbing is too restrictive.

The pump itself produces flow not pressure. Like a turnstile, every rotation of the pump delivers a metered volume to the other side. Whatever system is connected to the pump has flow resistance, which is the source of the backpressure as the pump works to maintain flow.

It is recommended that hose or pipe no smaller than 1" (25mm) be used and that the suction hose, in particular, be kept as short as possible and no longer than 36".

Wiring and Motor Protection

Wire Leads are 8in (45cm) 18AWG. A #8 ground lug is located inside conduit box. Class 20 motor protection in the motor starter is recommended.

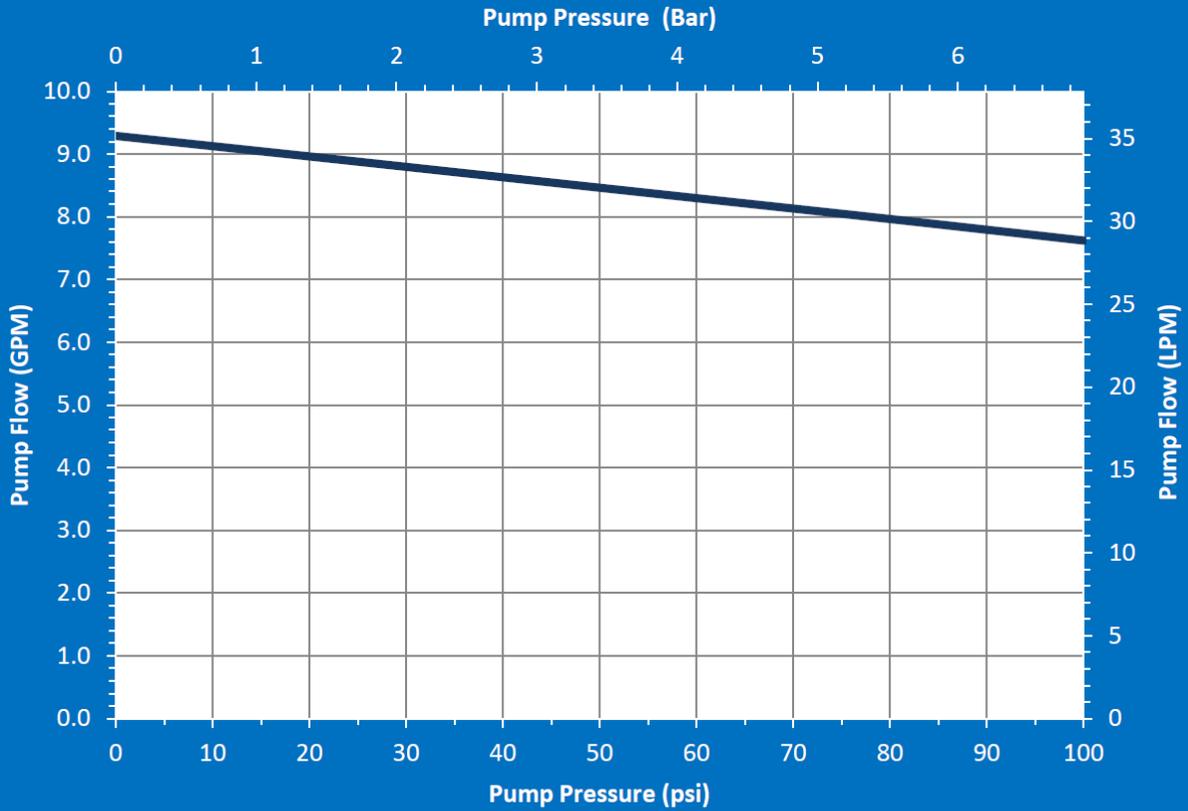


TO REVERSE ROTATION INTERCHANGE ANY 2 LINE LEADS

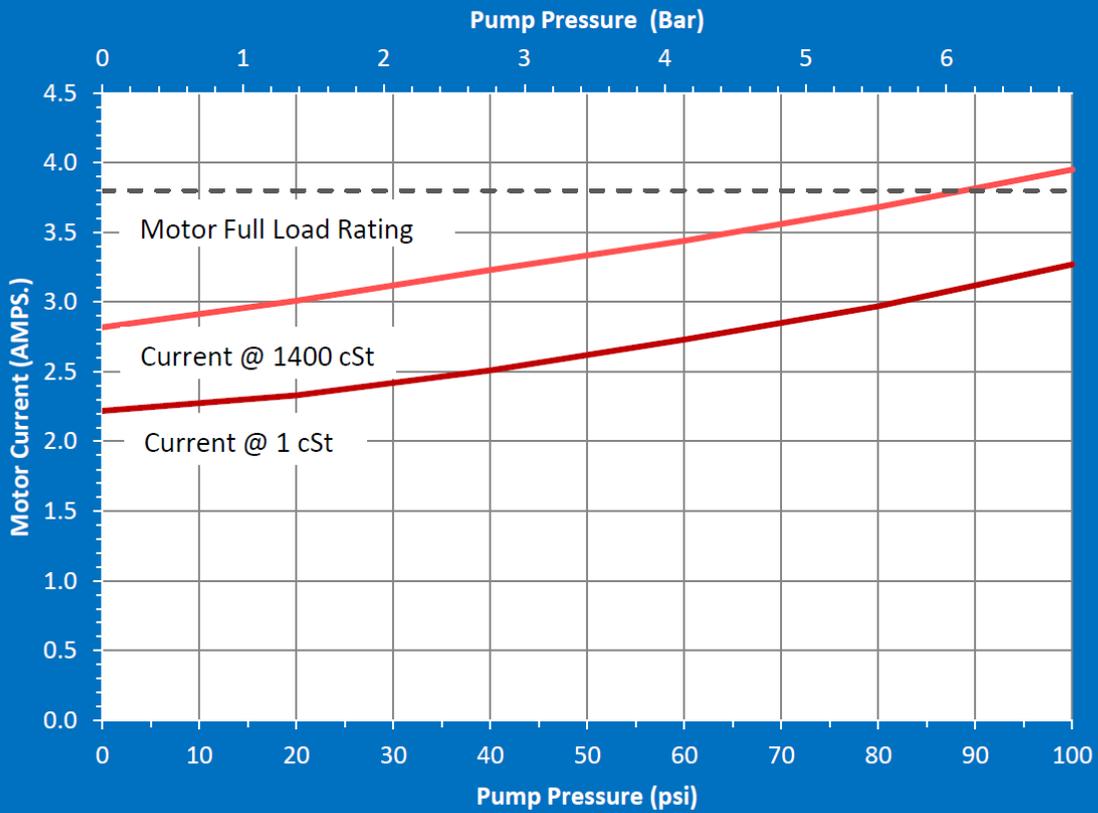
Application Engineering

It is challenging to address every possible installation type. We are always happy to help in choosing an appropriate installation setup. Give us a call for engineering assistance and support. 888-676-7774

XD-9 Pump Flow Performance



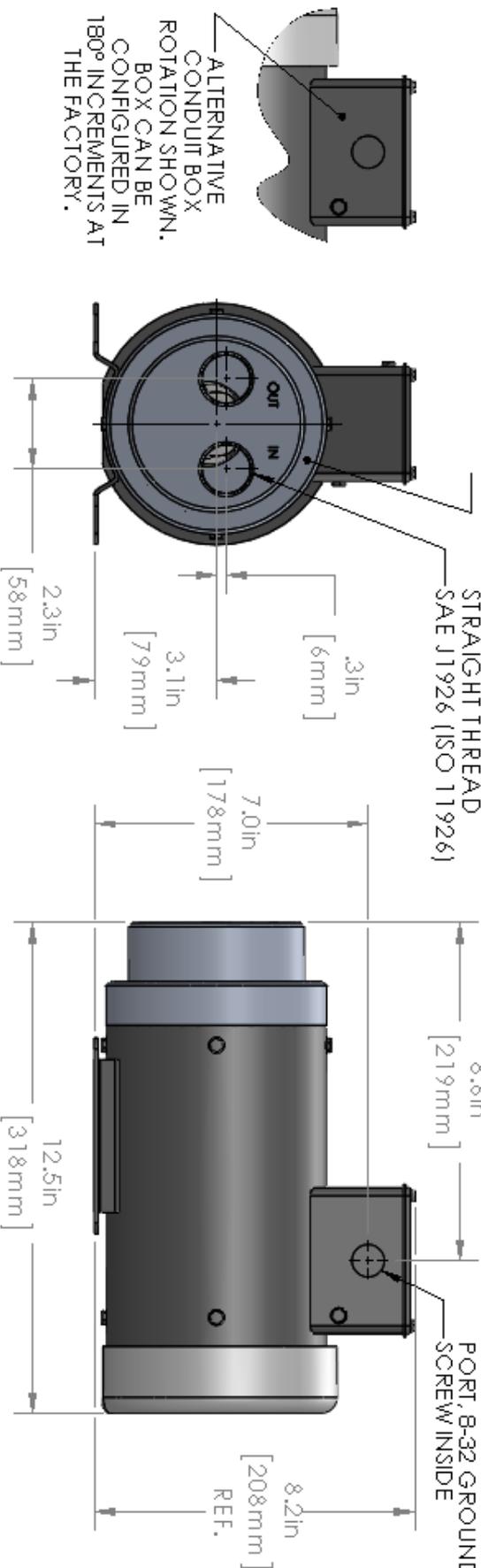
XD-9 Motor Current Performance



PUMP HEAD CAN BE CONFIGURED IN 90° INCREMENTS AT THE FACTORY

2X PORT SIZE - 1/6 SAE STRAIGHT THREAD SAE J11926 (ISO 11926)

PG-16 CONDUIT PORT, 8-32 GROUND SCREW INSIDE

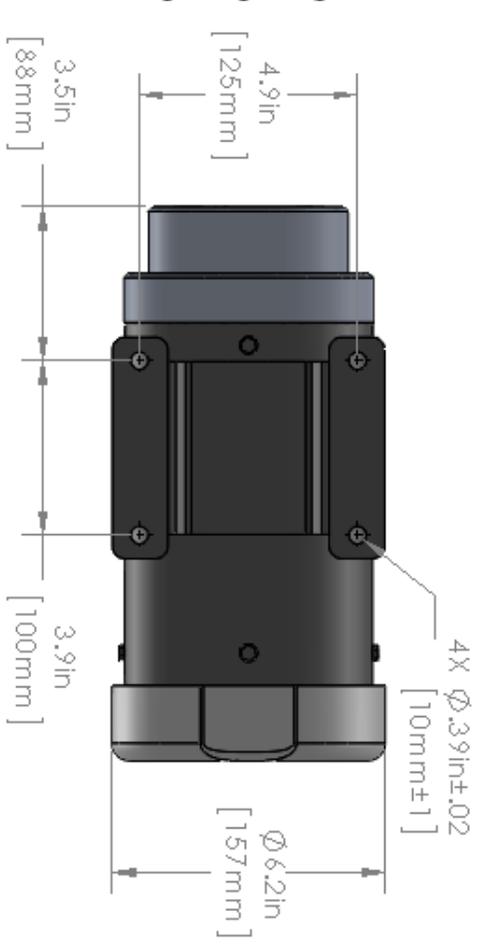
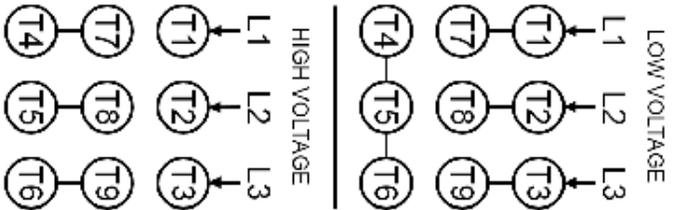


ALTERNATIVE CONDUIT BOX ROTATION SHOWN. BOX CAN BE CONFIGURED IN 180° INCREMENTS AT THE FACTORY.

REVISED		
REV.	DESCRIPTION	DATE

- NOTES:
- THREE PHASE AC VOLTAGE- 60Hz: 220-240/440-480 - 50Hz: 180-200/360-400 @50Hz
 - FULL LOAD AMPS. 60Hz: 3-2.8/1.5-1.4 - 50Hz: 3-2.8/1.6-1.4
 - WIRE LEADS: 8in (45cm) 18AWG, #8 GROUND LUG INSIDE CONDUIT BOX
 - FLOW- 60Hz: 9 GPM (34 L/Min) - 50Hz: 28L/Min.
 - MAX. PRESSURE OVER 60psi (4bar). SELF PRIMING, LIFT IN EXCESS OF 5 FT (1.5) DEPENDING ON FLUID VISCOSITY, UP TO 20ft (6m) WET.
 - CONTINUES DUTY.
 - DRAIN HOLES IN CONDUIT BOX AND FRAME (PLUGGED)
 - WETTED MATERIALS: TYPICAL ANODIZED ALUMINUM, CARBURIZED CARBON STEEL, VITON.
 - T¹ SAE STRAIGHT THRD. O-RING PORTS. (NOT COMPATIBLE WITH PIPE THREAD)
 - MAX. TEMP. 392°F (200°C).
 - MAX. FLUID VISCOSITY ~1,000-1,200 cSt
 - WEIGHT ~35.6LBS (16.2kg)

TO REVERSE ROTATION INTERCHANGE ANY 2 LINE LEADS



Material: ---		Transportation Research Corp. (TRC)		Voice: 530-676-7770	
Approvals		Date		Fax: 530-676-7796	
DW/N. MSA	6/28/17	VARNA Products		XD-9 Pump	
ECEA #		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TO LEADING ARE: X = .001 XX = .005 XXX = .005 ANGLES = 90° FINISHES UNLESS NOTED ARE MAXIMUM VALUES		7510	
SCALE: 1:4					