



# Flygt A-C Series PEG Mount

VIBRATION PREVENTION SOLUTIONS

**FLYGT**  
a xylem brand

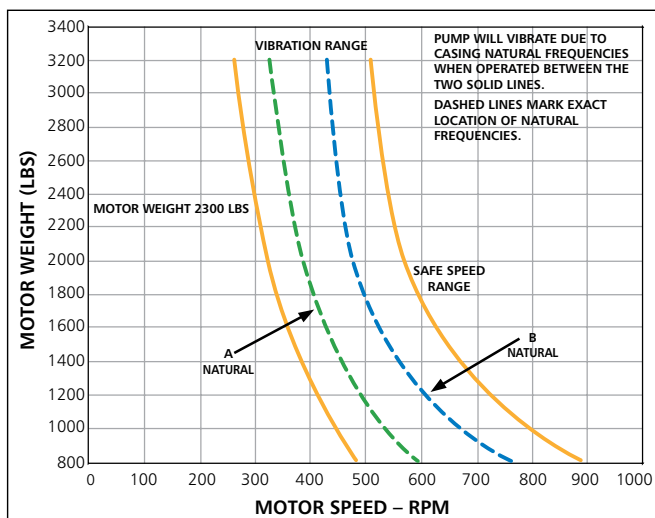
# Optimum Weight Distribution Eliminates Vibration

With the trend of municipal wastewater pumps utilizing variable speed drives, vibration has become an ever growing concern. The PEG Base is designed to distribute the motor weight directly to the foundation instead of passing the motor weight through the pump casing. This assures the casing natural frequency is unaffected by the weight of the motor and is outside of the operating range of your pump.

The chart shows the natural frequency of a typical non-clog pump in the pedestal configuration where the motor weight passes through the pump casing. The two dashed lines mark the casing natural frequencies in the A and B directions. When operating between the two solid lines, the pump is prone to vibration due to the casing natural frequency.

For variable speed applications, it is critical to examine performance over the entire operation range of the pump. With careful examination of your operating conditions and the selection of the proper configuration, Xylem can help ensure low vibration operation for your non-clog pump application.

## Vibration Avoidance Chart for 10x10x21 LC/SC NSWV



## Alternative Mounting Option

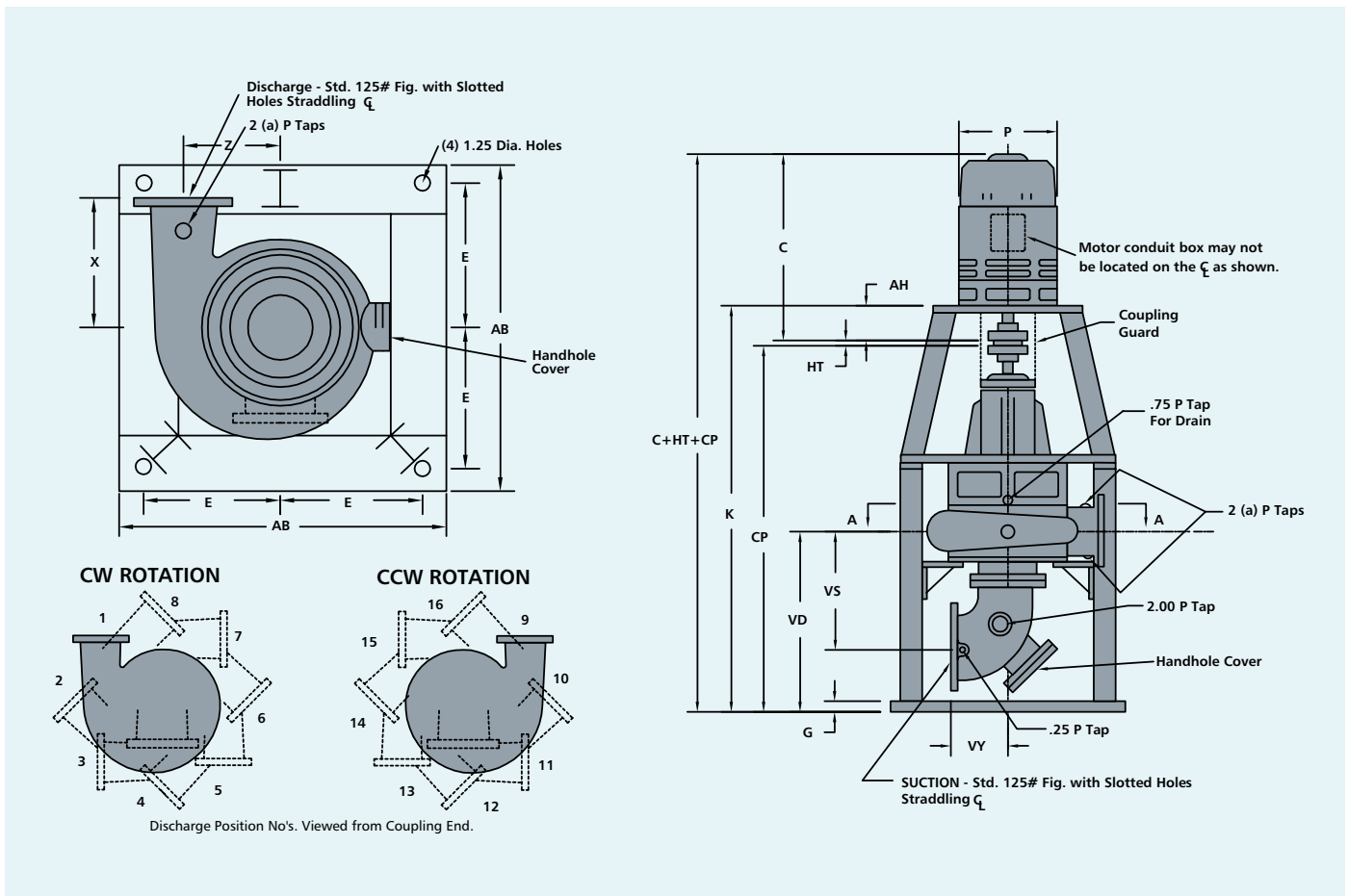
- Pump mounted vertically on fabricated Tri-Base mount
- Engineered independent motor support and concrete pier supports
- Rubber dampening washers reduce transmittal of vibration to foundation
- Eliminates natural frequencies encountered with direct coupled non-clog pumps
- Excellent for variable speed application



# NSWV Model 300 PEG Base Pump Dimensions

PUMP SIZE	FRAME SIZE	SUCT	DISCH	AB	E	G	CP	VD	VS	VY	X	Z	K	PIPE TAPS A
4x4x10 SC	F7-M3	4	4	38	17	2 5/16	47 13/16	26 1/2	12 5/16	6 1/2	9	7 1/4	53	3/4
4x4x10 LC		4	4	38	17	2 5/16	47 13/16	26 1/16	12 3/4	6 1/2	10	7 7/8	53	
4x4x12 LC		4	4	38	17	2 5/16	47 13/16	26 1/16	12 3/4	6 1/2	12	9	53	
5x5x12		5	5	38	17	2 5/16	47 13/16	26	14 3/4	7 1/2	13	9 1/2	53	
6x6x12 SC		6	6	38	17	2 5/16	47 13/16	26	15 1/4	8	13	9 1/2	53	
6x6x12 LC	F7-K2	6	6	38	17	2 5/16	48 1/16	25 1/8	15 1/4	8	13	9 1/2	53	3/4
6x4x14 LC	F7-D3	6	4	49	22 1/2	2 7/8	54 17/32	25 3/8	15 13/16	8	14 3/4	10 3/8	59 3/4	3/4
6x4x14 CV		6	4	49	22 1/2	2 7/8	54 17/32	25 3/8	15 13/16	8	14 3/4	10 3/8	59 3/4	
6x6x14		6	6	49	22 1/2	2 7/8	61 17/32	31 13/16	16 3/8	8	17	12 3/16	66 3/4	
8x8x14		8	8	49	22 1/2	2 7/8	61 17/32	31 13/16	18 1/8	9	18	18	66 3/4	
5x5x17	F7-B4	5	5	54	25	2 7/8	65 7/8	32 1/2	15 1/2	7 1/2	16	11 1/2	71 1/8	1.0
6x6x17		6	6	54	25	2 7/8	65 7/8	32 7/16	16 3/8	8	17	12 3/16	71 1/8	
8x8x17 SC		8	8	54	25	2 7/8	65 7/8	31 13/16	18 1/8	9	18	18	71 1/8	
8x8x17 LC		8	8	54	25	2 7/8	65 7/8	31 13/16	18 1/8	9	18	18	71 1/8	
8x8x21	F7-C4	8	8	66	31	3	88 7/8	41 9/16	19 1/2	9	21	19 3/4	94 1/8	1.0
10x10x21 SC		10	10	66	31	3	88 7/8	41 1/16	22	11	24	17 7/8	94 1/8	
10x10x21 LC		10	10	66	31	3	88 7/8	41 1/16	22	11	24	17 7/8	94 1/8	
12x12x21		12	12	66	31	3	88 7/8	41 1/16	26 3/4	14	24	18 3/8	94 1/8	

Dimensions are subject to change.



# The Flygt Advantage

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**PERFORMANCE TESTING** - with testing capabilities up to 300,000 gpm (68,000 m<sup>3</sup>/hr) the performance of your pump can be accurately verified before it leaves the factory.

**CRITICAL SPEED ANALYSIS** - performed on every rotor to ensure that the first critical speed is well above the pump operating speeds.

**MECHANICAL DESIGN ANALYSIS** - performed on every pump to determine the proper shaft size, bearing spans, wall thickness, bolting sizes & quantities, and other critical design features.

**FEA & CFD ANALYSIS** - in-house Finite Element Analysis and Computerized Fluid Dynamics analysis are available to ensure that there are no system resonant frequency or hydraulic concerns.

**START-UP ANALYSIS** - determines the optimal starting sequence between the pump, motor and control valve, and confirms the ability of the drive to start the pump under any number of possible circumstances. Available upon request.

**EXPERIENCED CUSTOM DESIGNS** - every order is custom designed to match the specific pump configuration, mechanical design, hydraulic requirements and materials of construction dictated by the application and the contract documents.

**PUMP QUALITY** - all pump components and assemblies are inspected and documented in accordance with Flygt ISO 9000 certified quality program. Any special contract requirements are incorporated into the Inspection and Test Plan developed for each contract.

**MODEL TEST DATA** - the high efficiency hydraulics for each pump design have been extensively model tested over the full range of impeller diameters/tilts. Model testing in a closed loop system provides accurate measurement of all pump performance characteristics along with NPSHr values, hydraulic thrust values and the development of three quadrant curves (Karman-Knapp curves).



Flygt is a brand of Xylem, whose 12,000 employees are addressing the most complex issues in the global water market.

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