

FOOT LOAD CALCULATION REPORT



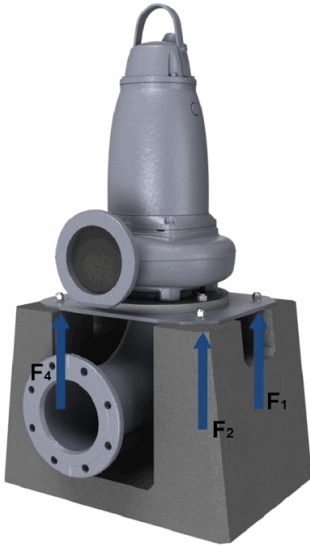
Untitled

Project Information

Project name: Untitled
 Customer name:
 customer contact
 Created by: world\mhutchin

Summary

This report shows the results from a footload calculation made in FET (Flygt Engineering Tool)



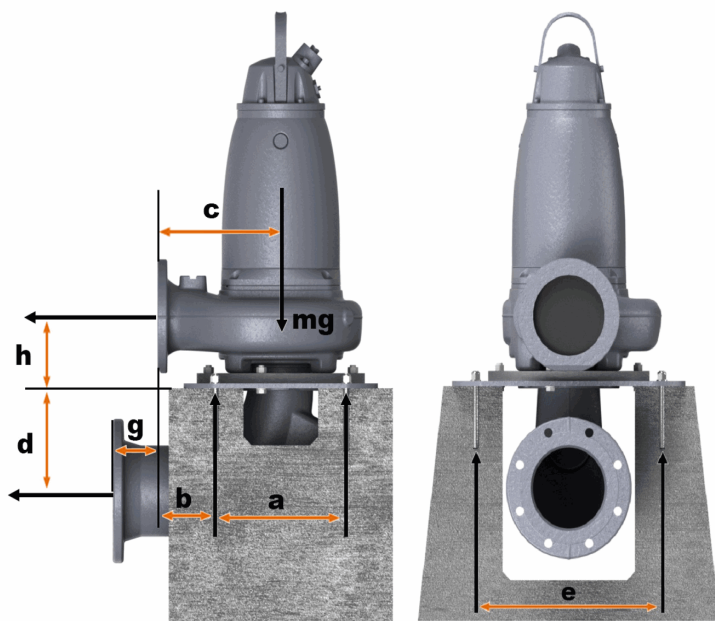
Loads Location		Loads [N]
F1	Load on bolt 1	1 463
F2	Load on bolt 2	13 252
F3	Load on bolt 3	1 463
F4	Load on bolt 4	13 252
Shear Load		1209

Disclaimer

As with any engineering software, the accuracy of the output is based on the accuracy of the input data, and it is the responsibility of those supplying that information to verify that this data is correct. These calculations are supplied for reference only, based on Flygt equipment, and are meant for preliminary equipment design and system evaluation. A professional engineer, licensed in the appropriate field of engineering, should always conduct the final evaluation of the

Comments

System configuration

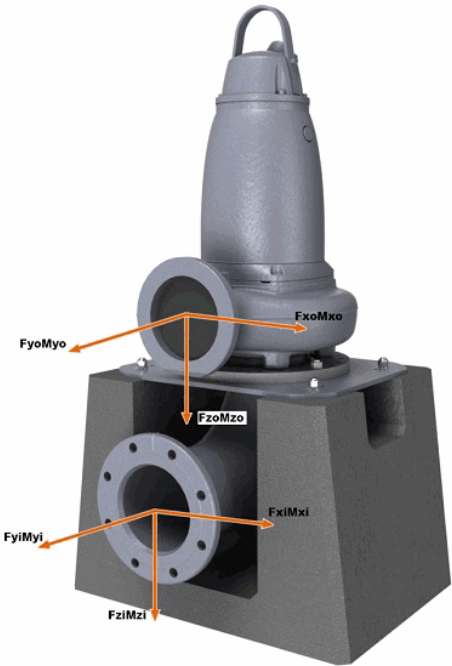


Pump Data	
Mass of pump	1000.00 [kg]
Motor Torque	790.00 [Nm]
Pump Data	
Distance	[mm]
Distance between bolts (a)	482.00
Distance p-flange to first bolt (b)	269.00
Distance p-flange to cg & shaft (c)	510.00
Distance bolts to inlet (d)	237.00
Distance between bolts (e)	660.00
Total number of bolts	4.00
Distance p-flange to inlet (g)	-110.00
Distance bolts to outlet (h)	236.00
Pump Data	
Diameter to inlet:	250.00 [mm]
Diameter to outlet:	150.00 [mm]
Head (outlet pressure):	46.30 [m]
Flow	0.08 [m ³ /s]

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Safety factors and additional forces and torques

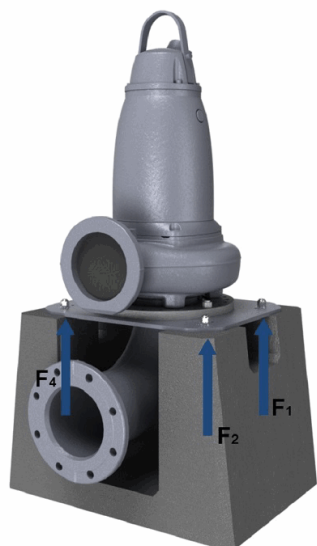


Safety factors and addit	[-]	
Factor for handling safety	2.00	
Factor for load per bolt	1.50	
Auxiliary pipe load		
Mx0	0.00	[Nm]
My0	0.00	[Nm]
Mz0	0.00	[Nm]
Mx1	0.00	[Nm]
My1	0.00	[Nm]
Mz1	0.00	[Nm]
Fx0	0.00	[N]
Fy0	0.00	[N]
Fz0	0.00	[N]
Fx1	0.00	[N]
Fy1	0.00	[N]
Fz1	0.00	[N]

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Foot load calculation result



Loads	Location	Loads [N]
F1	Load on bolt 1	1 463
F2	Load on bolt 2	13 252
F3	Load on bolt 3	1 463
F4	Load on bolt 4	13 252
	Shear Load	1209

- ◆ Calculation of bolt loads from weight of pump and pipeload
- ◆ Pre-tension is not considered
- ◆ Dynamic loading during run is not considered and has low influence on total load magnitude of the bolts.
- ◆ Safety factor should be at least 2 to cover handling, uncertainty in loads etc.
- ◆ Factor for load per bolt is 1.0 if equally distributed. Normally a of 1.5 is more adequate
- ◆ Maximum motor torque is adequate to use.
- ◆ If distance to third bolt pair is 0 then third bolt pair can be considered as none existing
- ◆ If 6 bolts: Load is distributed according to soft base and no shear is taken by bolt 5&6

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