



Modify Pump

Equipment ID: P040102 Generate Report

Code Edition: 11th Edition Orientation: Horizontal

Shaft Axis: Global Z X: Z

Manufacturer Allowable Multiplier: 1.00 Nozzle Loading Factor: 2.00

Type	Point	N/F/Seg	Location	DX	DY	DZ
Suction	F05	End				
Discharge	E00	Top				
Center	N/A	N/A	N/A	0.00	0.00	0.00

Override Nozzle Coordinates (Offsets are relative to the reference point) Reference Point: F05

OK Cancel Help

Restraint Loads

Restraint id: E00 Anchor (Conn. to: Ground)

Load: GT1P1(1)

Forces - N

Fx	-2725
Fy	-1331
Fz	131
Total	3036

Moments - N.m

Mx	292
My	17
Mz	1458
Total	1487

Use PgDn, PgUp keys to roll through loads

Restraint Loads

Restraint id: F05 Anchor (Conn. to: Ground)

Load: GT1P1(1)

Forces - N

Fx	-7060
Fy	-2906
Fz	-501
Total	7651

Moments - N.m

Mx	-1259
My	2736
Mz	129
Total	3014

Use PgDn, PgUp keys to roll through loads

Equipment ID : P040102 Equipment type : Pump

Report type : API 610 (11th Edition)

Load Case : GT1P1(1)

Equipment local axes : x = 0.000, 0.000, 1.000
y = 1.000, 0.000, 0.000
z = 0.000, 1.000, 0.000

Manufacturer Allowable Multiplier = 100.000

Reference point = F05

Center point offsets (mm) : DX = 0.00 DY = 0.00 DZ = 0.00

Configuration: Horizontal

Point	Type	Ref-ID	Ref. Side	Load Coordinate	Load Direction
F05	Anchor				
E00	Anchor				

Nozzle Point: F05 E00

Nozzle Type: Suction - End Discharge - Top

Nozzle Size (mm): 125.00 100.00

Nozzle location with respect to center of pump (mm):
x Coordinate: 0.00 130.56
y Coordinate: 0.00 0.00
z Coordinate: 0.00 285.56

Nozzle Loading Factor = 200.0

Check of condition P.1.2.a - Individual Forces & Moments at each nozzle:

	Suction			Discharge		
	Actual SA	Allowable ST4	Ratio	Actual DA	Allowable DT4	Ratio
Force (N)						
Fx	-501	244519	0.002	131	141987	0.001
Fy	-7060	195499	0.036	-2725	116010	0.023
Fz	-2906	160514	0.018	-1331	178018	0.007
FR	7651	351988		3036	255995	
Moment (N.m)						
Mx	129	181504	0.001	1458	133006	0.011
My	-1259	92996	0.014	292	67994	0.004
Mz	2736	138002	0.020	17	100005	0.000
MR	3014	246502		1487	179999	

