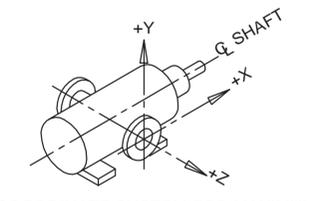
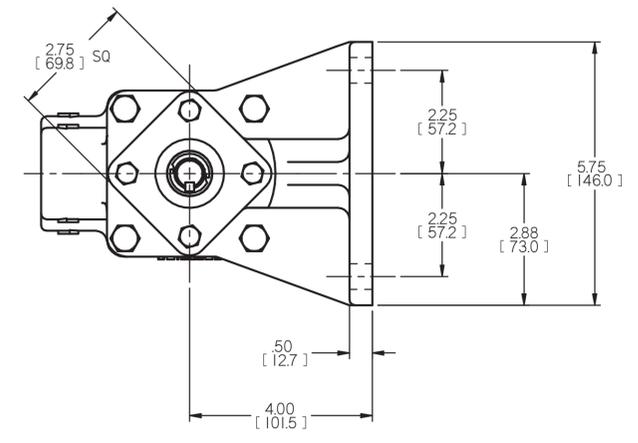
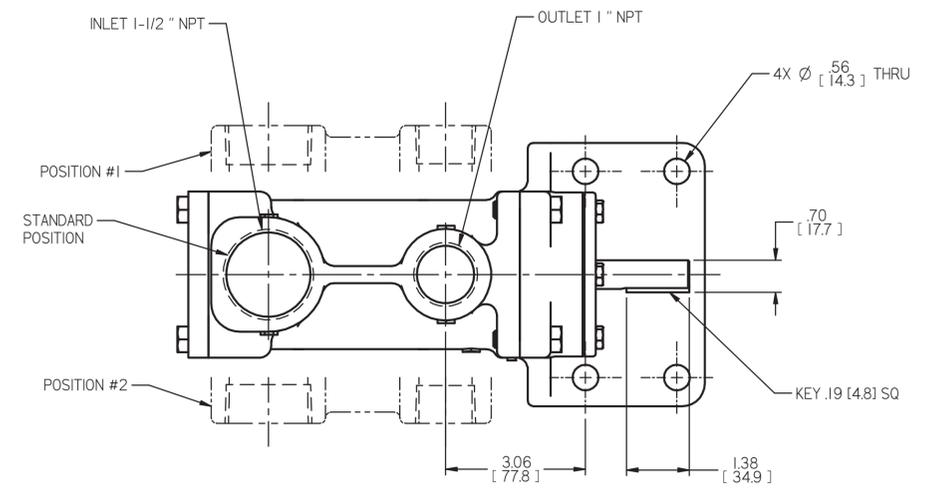


REVISION HISTORY						
CHG NO	ZONE	REV	DESCRIPTION	DATE	BY	APPROVED
07-0355	C1,C2	02	ADDED API NOZZLE LOADS	8-14-07	ERH	ERH
13-0319	ALL	3	REDRAWN AND UPDATED ON CAD	6-6-14	ERH	CHH

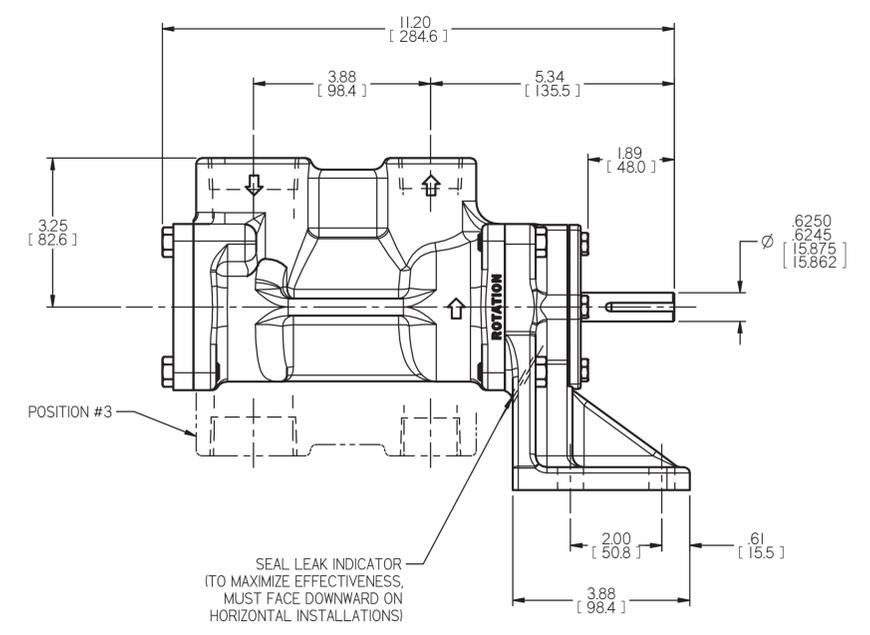


COORDINATE SYSTEM FOR MAXIMUM PUMP FORCES (F) AND MOMENTS (M)

INLET:
 FX= 28.1 LBF [125 N] MX= 46.9 LB FT [63.6 N.m]
 FY= 28.1 LBF [125 N] MY= 46.9 LB FT [63.6 N.m]
 FZ= 28.1 LBF [125 N] MZ= 46.9 LB FT [63.6 N.m]

OUTLET:
 FX= 18.8 LBF [83.4 N] MX= 31.3 LB FT [42.4 N.m]
 FY= 18.8 LBF [83.4 N] MY= 31.3 LB FT [42.4 N.m]
 FZ= 18.8 LBF [83.4 N] MZ= 31.3 LB FT [42.4 N.m]

FORCE AND MOMENT VALUES ARE RELATIVE TO CENTER OF INLET AND OUTLET PORT FACES.



← ROTATION →

DRAWING CERTIFICATION	
CUSTOMER NAME -----	
CUSTOMER PO NUMBER ---	
CUSTOMER PART NUMBER -	
BOM NUMBER -----	
PUMP TYPE -----	
SHAFT ROTATION -----	
PORT POSITION -----	
OTHER INFORMATION	
CERTIFIED BY -----	
CERTIFIED DATE -----	
IMO ORDER NUMBER ----	
DATA REVISION NUMBER -	

NOTES:

- UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.
- PORT POSITIONS ARE RELATIVE TO THE WEEP HOLE FACING DOWNWARD.

DRAWN DMM 3-19-98		CIRCOR IMO		
CHECKED MJC 3-24-98				
APPD MJC 3-24-98		TITLE OUTLINE STANDARD _3E_F-118_		
METHODS				
UNLESS OTHERWISE SPECIFIED ASME Y14.5M-1994.		SIZE D	CAGE CODE 59180	DWG NO SDD19379
COMMENTS: SUCTION STRAINER AND DISCHARGE RELIEF VALVE MUST BE PROVIDED. ALIGNMENT: UNITS ARE ACCURATELY ALIGNED AT THE FACTORY. ALIGNMENT SHOULD BE CHECKED BEFORE STARTING TO ENSURE THAT IT IS STILL WITHIN .005 (0.13) MM. PRE-STARTING: FLUSH SUCTION PIPING BEFORE CONNECTING PUMP. PRIME AND VENT PUMP. READ INSTRUCTION MANUAL FOR DETAILS BEFORE STARTING.		FIRST ORDER 818166	SCALE 1/2	WEIGHT 27 LBS [12.2kg]
MATERIAL		USED ON 3241/260	SHEET 1	OF 1