NOTE: PIN HOLE CLEARANCE MACHINED TO SUIT ANSI B4.2 D9/h9

PORT THREADS MACHINED TO ISO11926-1 OTHER THREADS MACHINED TO CLASS 2A/B

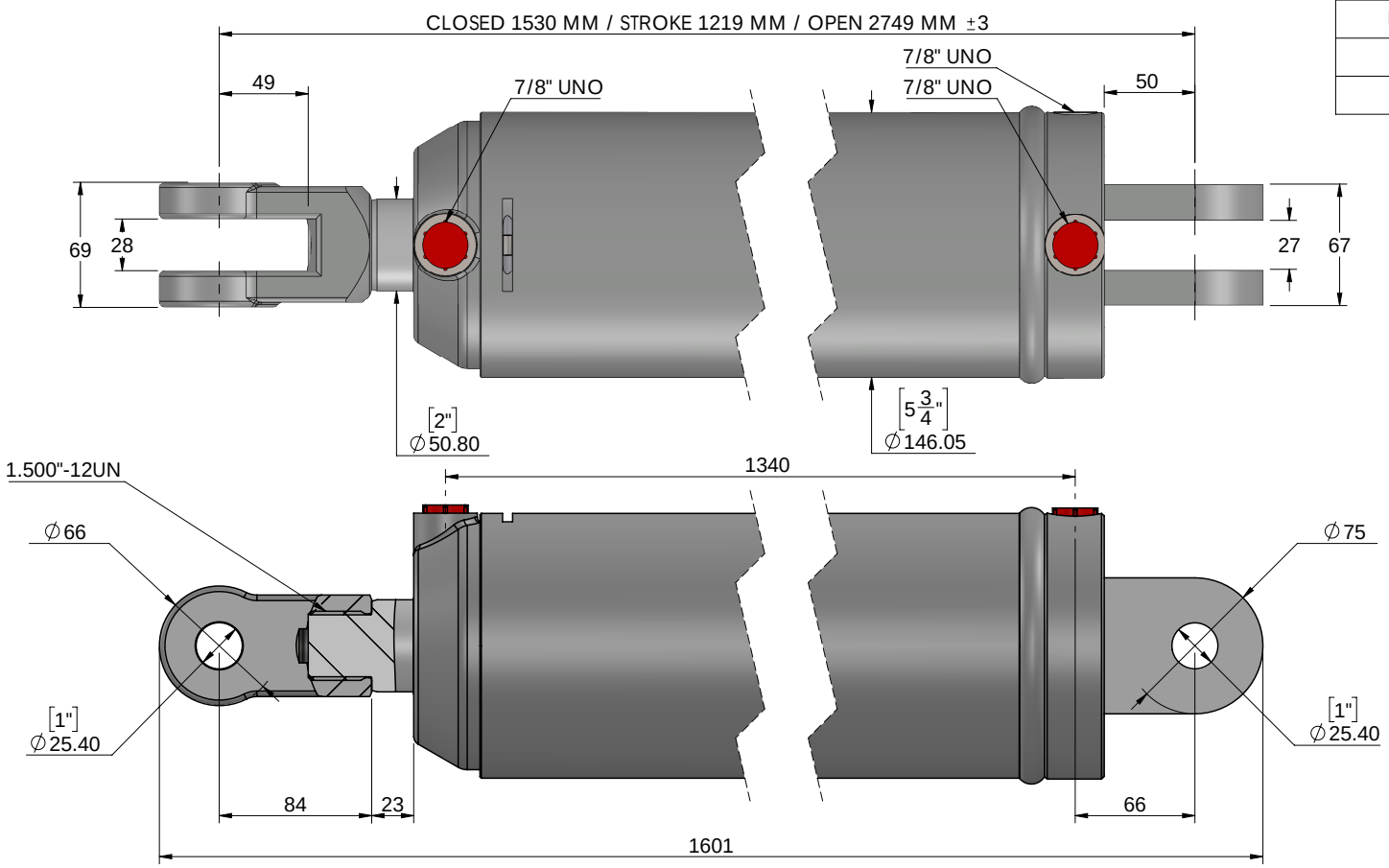
GENERAL DIMENSIONS SUIT ISO2768-mK UNLESS OTHERWISE STATED

GENERAL SURFACE MACHINING TO ISO1302

FORCE CALCULATIONS ARE THEORETICAL MAXIMUM. ALLOW UP TO 20% FOR LOSSES

OPERATING CONDITIONS	
MAX PRESSURE	210 BAR
PUSH FORCE @ 210 BAR	26590 Kg
PULL FORCE @ 210 BAR	22335 Kg
FLUID	HYDRAULIC OIL VG46

CYLINDER FACTOR OF SAFETY AT 210 BAR		
STRESS AREA	SAFETY FACTOR	COMMENT
PISTON PULL OFF	1.05:1	
ROD MOUNT PULL OFF	1.42:1	
ROD BUCKLE	1.7:1	RISK AT MAX EXTENSION: STOP TUBE RECOMMENDED
BASE MOUNT	3.60:1	
ROD MOUNT	3.82:1	
BARREL	3.75:1	HOOP STRESS
PINS	0.91:1	



CYLINDER SPECIFICATIONS			
CLOSED	1530 MM	PORTS	7/8" UNO
STROKE	1219 MM	BARREL	5 3/4" TUBE 3/8" WALL
OPEN	2749 MM	HEAD CLEVIS	FC0050501013
STAND OUT	23MM	ROD CLEVIS	FC0000401006
ROD	2.00" - K1045	WEIGHT	85.5 Kg
BORE	5.00"	PAINTING	REFER TO QUOTE

REV	DATE	DRAWN CHECKED	REMARK
B			
A			
0	17/08/2018	MJSTONE	

CLIENT SIGNATURE

APPROVAL DATE

SHEET SIZE: A4

SCALE: 1:4

SHEET OF: 1/1

HYPOWER QUALITY MANUFACTURING

M3000 50

DESCRIPTION: HPWG 5.0"BORE X 1219 MM STK X 2.000" ROD 7/8" UNO - 1.00" PIN

PART NO.: M3000-50-1219-40-AU000

DWG NO.: M3000-50-1219-40-AU000DIM

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