

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IS SUBMITTED IN CONFIDENCE. THIS DOCUMENT IS SUBJECT TO RETURN UPON REQUEST. THE INFORMATION CONTAINED HEREIN IS NOT BE USED IN ANY WAY DERIMENTAL TO THE INTERESTS OF HYPower.

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

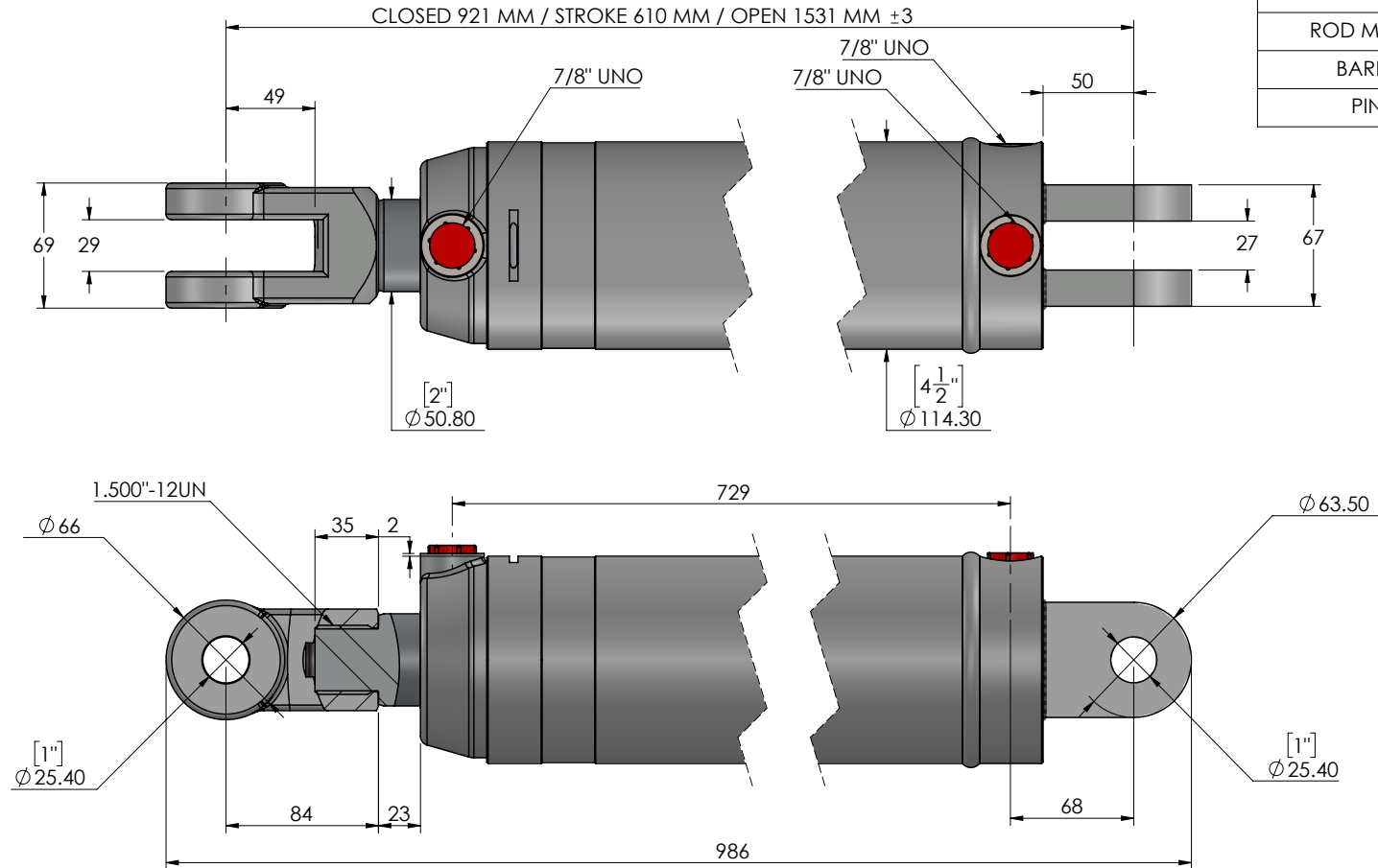
FORCE CALCULATIONS ARE THEORETICAL MAXIMUM. ALLOW UP TO 20% FOR LOSSES

### OPERATING CONDITIONS

MAX PRESSURE	210 BAR
PUSH FORCE @ 210 BAR	17017 Kg
PULL FORCE @ 210 BAR	12763 Kg
FLUID	HYDRAULIC OIL VG46

### CYLINDER FACTOR OF SAFETY AT 210 BAR

STRESS AREA	SAFETY FACTOR	COMMENT
PISTON PULL OFF	1.65:1	
ROD MOUNT PULL OFF	2.22:1	
ROD BUCKLE	4.85:1	AT MAX EXTENSION
BASE MOUNT	3:1	
ROD MOUNT	3.85:1	
BARREL	3.13:1	HOOP STRESS
PINS	1.43:1	



### CYLINDER SPECIFICATIONS

CLOSED	921 MM	PORTS	7/8" UNO
STROKE	610 MM	BARREL	4" TUBE 1/4" WALL
OPEN	1531 MM	HEAD CLEVIS	FC0040501012
STAND OUT	23 MM	ROD CLEVIS	FC0000401006
ROD	2.00" - K1045	WEIGHT	37.0 Kg
BORE	4.00"	PAINTING	REFER TO QUOTE

CLIENT SIGNATURE

APPROVAL DATE

B				SHEET SIZE	A4
A	27/05/2019	AKIM	CHANGED HEADCAP FROM 790119A TO FC0040501012	SCALE	1:4
0	23/05/2019	AKIM		SHEET OF	1/1
REV	DATE	DRAWN CHECKED	REMARK		



M3000 40

DESCRIPTION

HPWG 4.0" BORE X 610 MM STK X 2.00" ROD 7/8" UNO - 1.00" PIN

PART NO.

M3000-40-610-40-AU000

DWG NO.

M3000-40-610-40-AU000 DIM