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

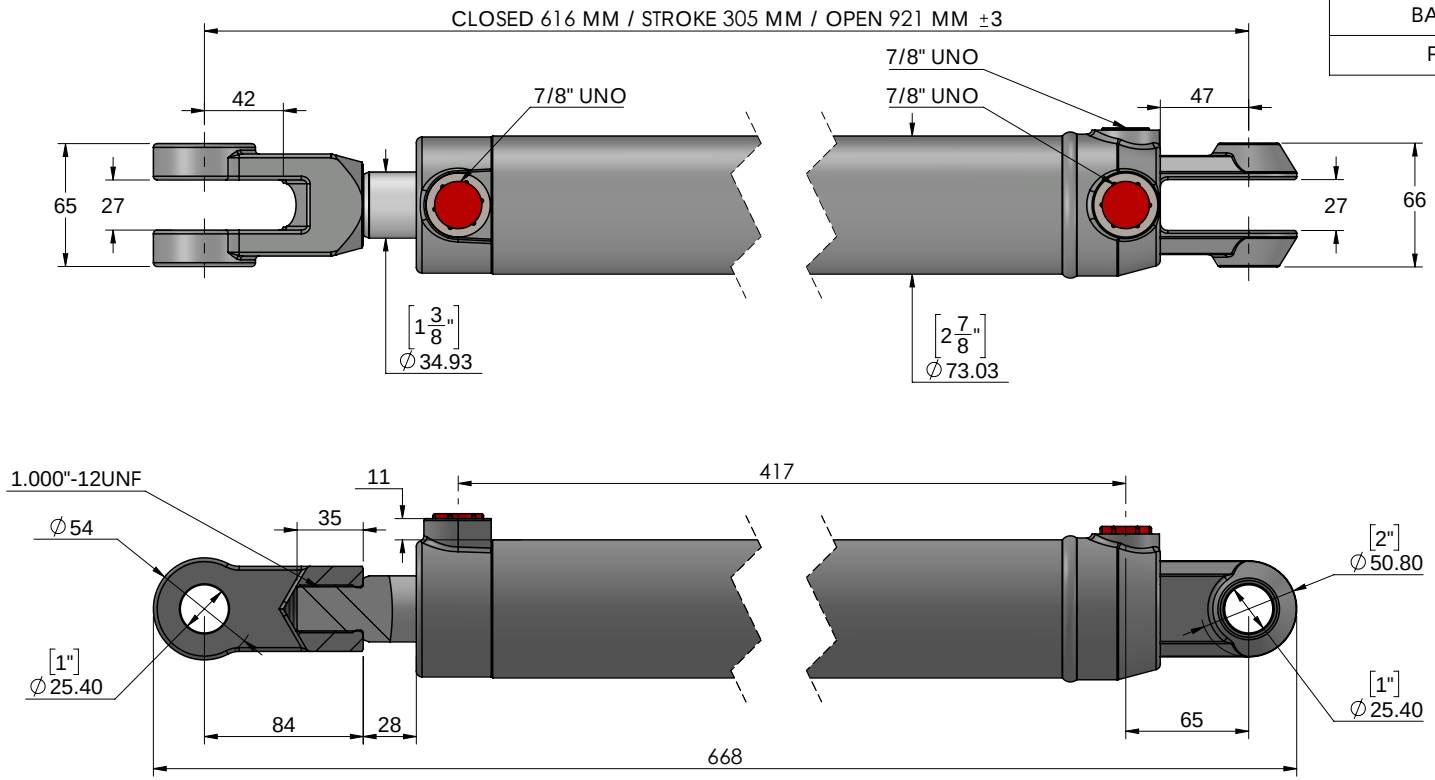
GENERAL DIMENSIONS SUIT ISO2768-mK UNLESS OTHERWISE STATED

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	6647 Kg
PULL FORCE @ 210 BAR	4637 Kg
FLUID	HYDRAULIC OIL VG46

CYLINDER FACTOR OF SAFETY AT 210 BAR		
STRESS AREA	SAFETY FACTOR	COMMENT
PISTON PULL OFF	2.30:1	
ROD MOUNT PULL OFF	4.95:1	
ROD BUCKLE	6.4:1	AT MAX EXTENSION
BASE MOUNT	3.60:1	
ROD MOUNT	4.27:1	
BARREL	3.75:1	HOOP STRESS
PINS	3.65:1	



CYLINDER SPECIFICATIONS			
CLOSED	616 MM	PORTS	7/8" UNO
STROKE	305 MM	BARREL	2 7/8" TUBE 3/16" WALL
OPEN	921 MM	HEAD CLEVIS	790107A
STAND OUT	28 MM	ROD CLEVIS	FC0000401002
ROD	1.375" - K1045	WEIGHT	11.5 Kg
BORE	2.50"	PAINTING	REFER TO QUOTE

REV	DATE	DRAWN CHECKED	REMARK
B			
A			
0	24/08/2018	MJSTONE	

CLIENT SIGNATURE

APPROVAL DATE

SHEET SIZE: A4

SCALE: 1:4

SHEET OF: 1/1

HYPOWER QUALITY MANUFACTURING

S3000 25

DESCRIPTION

CYLINDER 2.50" BORE X 305 MM STK A PORT 90 DEG TO PIN

PART NO.: S3000-25-305-40-AU000

DWG NO.: S3000-25-305-40-AU000D IM

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