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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

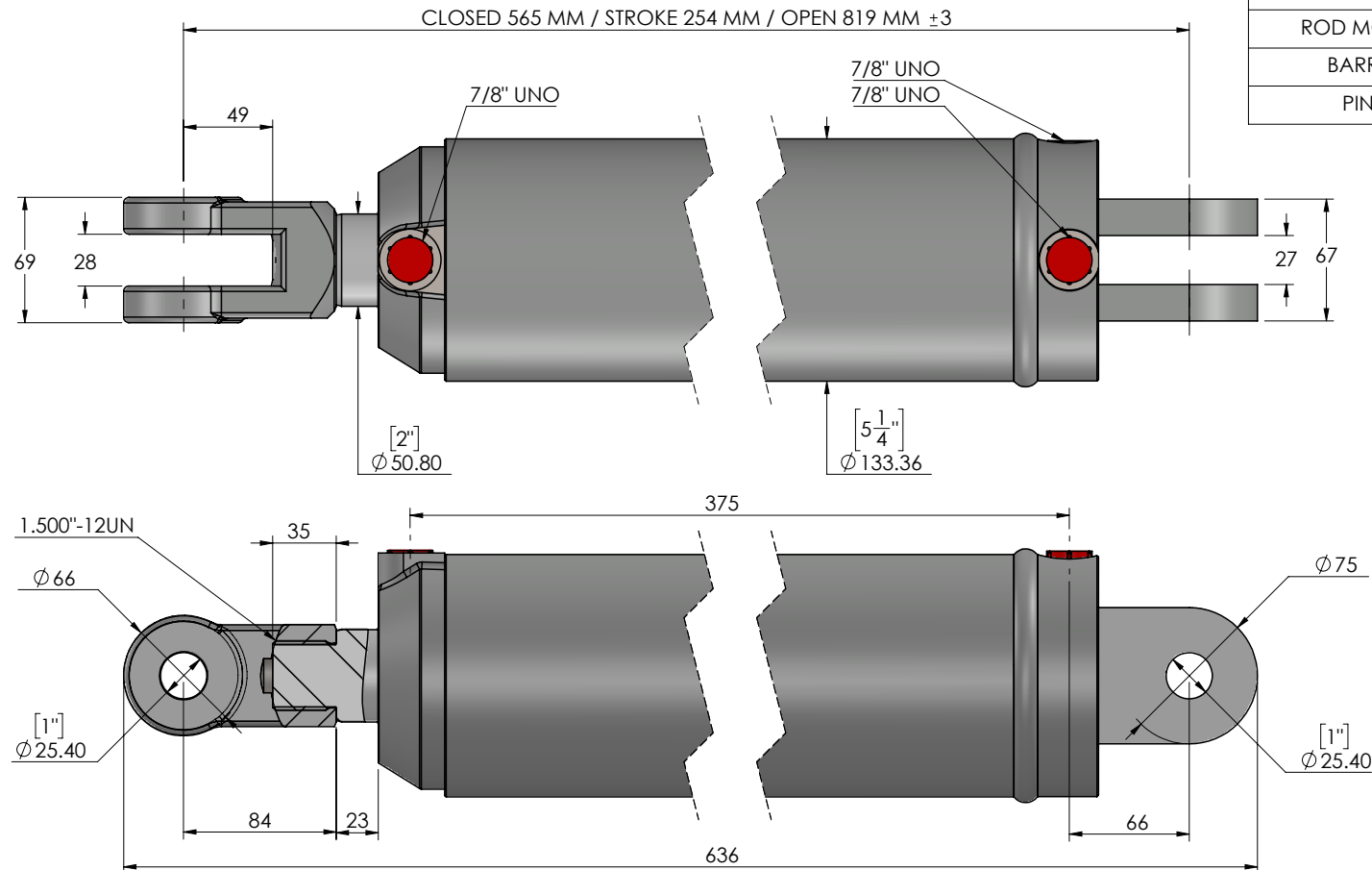
FORCE CALCULATIONS ARE THEORETICAL MAXIMUM. ALLOW UP TO 20% FOR LOSSES

### OPERATING CONDITIONS

MAX PRESSURE	210 BAR
PUSH FORCE @ 210 BAR	21538 KG
PULL FORCE @ 210 BAR	17283 KG
FLUID	HYDRAULIC OIL VG46

### CYLINDER FACTOR OF SAFETY AT 210 BAR

STRESS AREA	SAFETY FACTOR	COMMENT
PISTON PULL OFF	1.30:1	
ROD MOUNT PULL OFF	1.75:1	
ROD BUCKLE	5.0:1	AT MAX EXTENSION
BASE MOUNT	4.00:1	
ROD MOUNT	3.34:1	
BARREL	4.17:1	HOOP STRESS
PINS	1.13:1	



### CYLINDER SPECIFICATIONS

CLOSED	565 MM	PORTS	7/8" UNO
STROKE	254 MM	BARREL	5 1/4" TUBE 3/8" WALL
OPEN	819 MM	HEAD CLEVIS	FC0045501002
STAND OUT	23 MM	ROD CLEVIS	FC0000401006
ROD	2.0" - K1045	WEIGHT	30.0 Kg
BORE	4.50"	PAINTING	REFER TO QUOTE

CLIENT SIGNATURE					
APPROVAL DATE					
B				SHEET SIZE	A4
A				SCALE	1:4
0	9/08/2018	MJSTONE		SHEET OF	1/1
REV	DATE	DRAWN CHECKED	REMARK		



## HPAG 45

DESCRIPTION  
HPAG 4-1/2BOREx10(254MM)X2.00"ROD-A PORT

PART NO.  
HPAG45100A200C

DWG NO.  
HPAG45100A200CDIM