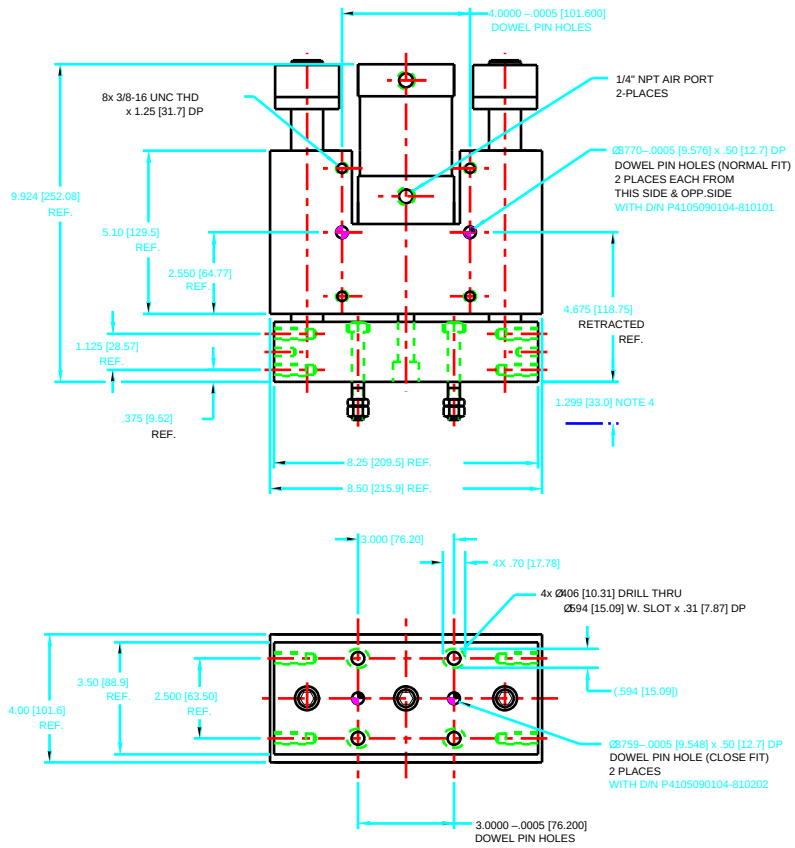

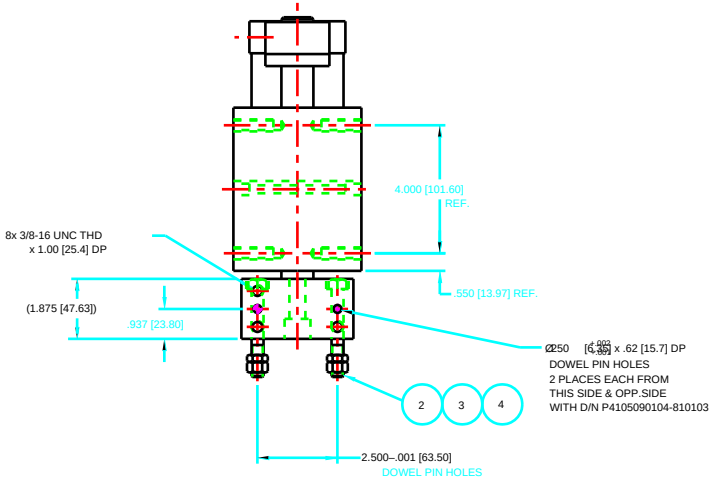

01

NOTES:

1. REWORK PHD POWERED SLIDE
P/N TS082 x 1.299 X -AJ1R2-D-E-V

2. NO GREASE OR TEFLON COATING SHALL BE USED AS LUBRICANT.

3. NO ELASTOMER MATERIAL SHALL BE USED AS SEAL
OR WIPER, EXCEPT VITON GRADED FOR 200° C.

4. ACTUATOR CYLINDER TRAVEL DISTANCE
SHALL BE 1.299–.005 [33mm–0.12].

5. HEX HEAD SCREWS SHALL BE PLACED
IN THE TOOL PLATE BEFORE ASSEMBLY.

6. ALL DIMENSIONS WITH [ ] ARE MILLIMETERS.

7. LUBRICATE ALL THE VITON SEAL WITH DOW CORNING 710
FLUID LUBRICANT. AFTER TEST THE CYLINDER FOR PROPER
ACTUATION, WIPE OUT ANY EXCESS OIL.

8. MAGNETIC STRIP SHALL BE ORIENTED FOR REED SWITCH.

9. REPLACE CAST IRON GRAPHITE FILLED BUSHING
WITH BRONZE 660 BUSHING.

SOURCE

1 PHD, INC.
AIRPORT AND PIPER DR.
FORT WAYNE, IN 46899
PHONE: (219) 747-6151

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
4		3/8-16 UNC-2B HEX NUT	SST	4
3		3/8-16 UNC-2B HEX JAM NUT	SST	4
2		3/8-16 UNC-3A x 2-3/4 LG. HHCS	SST	4
1	TS08	PHD SLIDE		1

PARTS LIST

01

SYM	CHANGE DESCRIPTION	BY	CHKD	DATE
01	DWG SIZE 'D' WAS 'C'	RK		
01	ADDED NOTES 7, 8 & 9	RK		

REVISIONS

UNLESS OTHERWISE SPECIFIED DIM. TOLERANCES ARE PER PHD STANDARDS

DECIMALS ±.02 .xx ±.01 .xxx ±.005 ANGLES ±.25°

SURFACE ROUGHNESS 63

MATERIAL & FINISH SHALL BE PER PHD STANDARD. ALL SHARP EDGES TO BE BROKEN. MATERIAL & FINISH SHALL BE PER PHD STANDARD. ALL SHARP EDGES TO BE BROKEN.

DO NOT SCALE DRAWING

DWG NUMBER A18167

DRAWN BY J. G.	DATE 7/7/93	CHIEF DESIGN ENGINEER D.SHU	DATE 7/8/93
CHECKED BY J. CHANG	DATE 7/8/93	CP LEADER T.M. KUZAY	DATE 7/8/93
RELEASED J. G.	DATE 7/8/93	PROJECT MGR	DATE
RESPONSIBLE ENGINEER J. CHANG	DATE 7/8/93	APPROVED/RELEASED	DATE

MATERIAL

SCALE 1=2 SHEET 1 of 1 SIZE D

THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY

TITLE ADVANCED PHOTON SOURCE
A4 HEAVY LOAD PNEUMATIC
33mm - 8" LINEAR ACTUATOR
GUIDED CYLINDER
SLIDE MODIFICATION

DRAWING NUMBER P4105090104-810104-01

PLOT SCALE:1=2