PNEUMATIC SERVO ACTUATOR

PSA	125	- XX	- XXXXX	- X	- X	- X	- X	- X
	BORE (in)	STROKE (in)	ROD END	VALVE	COMMUNICATION CARD	ENVIRONMENTAL PROTECTION	OPTIONS	MOUNTING

BORE (in)
1.25 = 125

STROKE (in)
4.00 = 04
6.00 = 06
8.00 = 08
10.00 = 10
12.00 = 12
18.00 = 18

ROD END
7/16-20 X 0.75 Male w/ Hex= 07MH
M12X1.25 X 25.4 mm Male w/ Hex = M12MH
7/16-20 X 1.00 Male w/ Hex= 07MLH
1/2-20 X 0.75 Male w/ Hex= 08MH
1/2-20 X 1.00 Male w/ Hex = 08MLH

VALVE
Standard Flow/3 Position = 0
Standard Flow/3 Position/High Pressure (250 psi) = 1
Low Flow/3 Position = 2

COMMUNICATION CARD
CAN2.0B = C
I/O INDEXER = I
PLC = L
I/O POSITIONER = P
RS232 = R
DeviceNet = D
Ethernet = E
Profibus = P
Sercos = S

ENVIRONMENTAL PROTECTION
IP67 (Design)= 1

OPTIONS
None = 0
Bronze Rod Bushing (no rod seal or rod wiper) = Z
High Pressure (250 psi) = H

MOUNTING
Base cylinder (no mount) = 0
Fixed Foot Mount = FFM
Front Trunnion (horizontal wrt valve) = FT
Rear Trunnion (horizontal wrt valve) = RT
Front Trunnion Vertical (wrt valve) **CONSULT FACTORY** = FTV
Rear Trunnion Vertical (wrt valve) **CONSULT FACTORY** = RTV
Detachable Head Clevis = DHC
Detachable Head Eye = DHE
Consult Factory For Other Mounting Options

MOUNTING OPTIONS SOLD AS ACCESSORIES

1.75" hex x 7/16" thick 1.25-12 UNF-2B NUT = 125NUT
Rectangular Flange Front cap = 125RFF
Right Angle front Mount = 125RAM
(SEE PAGE 6 OF 6) Foot Cleat = 125FC
Adjustable Foot mount = 125AF

SPEC.	DESCRIPTION

SPECIFICATION NOTES:

DRAWING PER ASME Y14.5N-1994 | DO NOT SCALE DRAWING:

THIRD ANGLE PROJECTION

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE SPECIFIED
2 PLACES (0.00) +/-0.010
3 PLACES (0.000) +/-0.005
ANGLE +/-2 DEGREES

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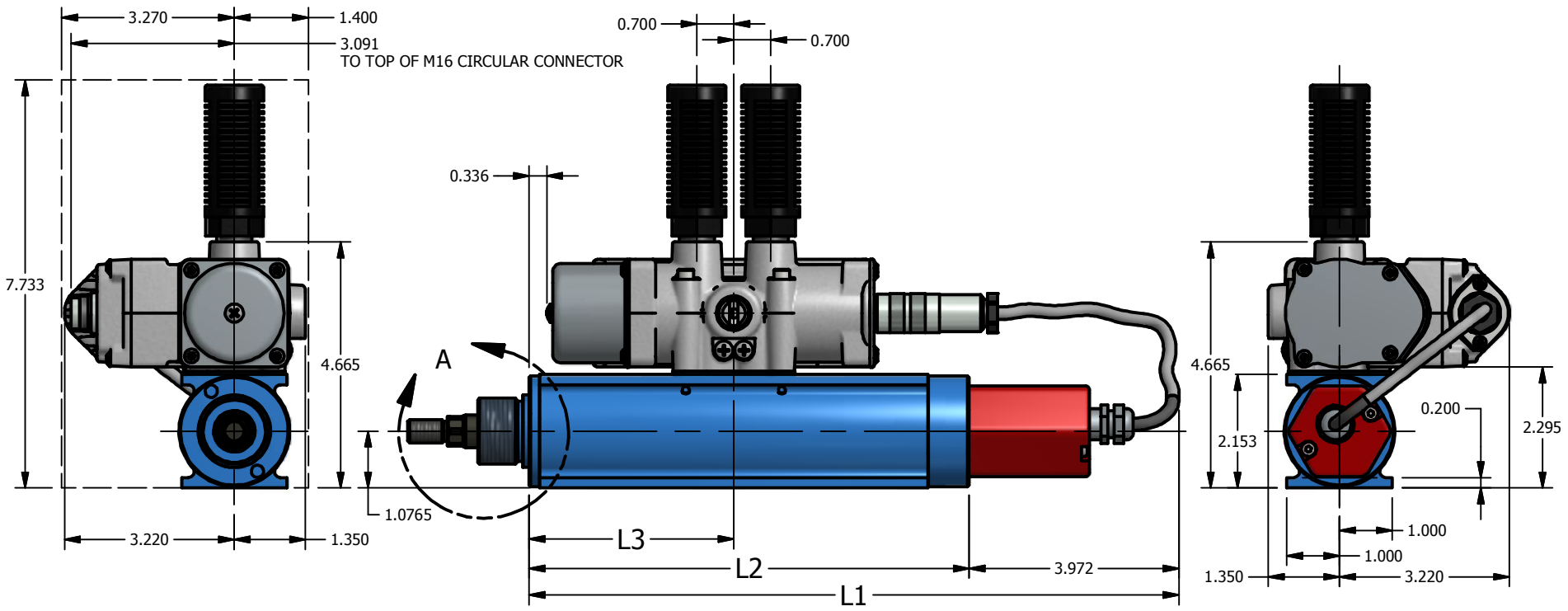
DRAWN BY:	DATE:
PPE	02/14/13
APPROVED BY:	DATE:
MKK	02/14/13
SCALE:	UNITS:
N/A	in

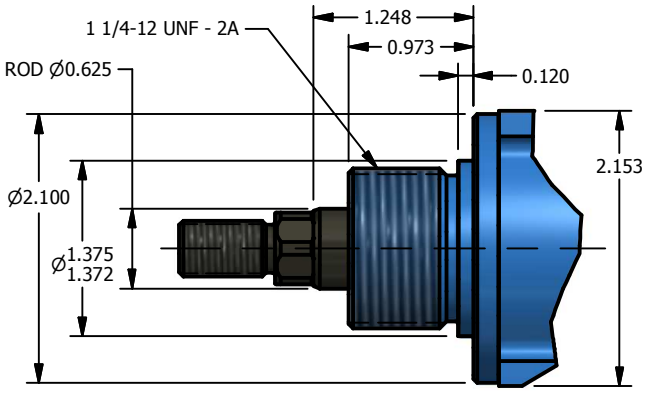
SUNSTREAM SCIENTIFIC

SIZE: A | TITLE: 1.25" BORE PSA

SHEET: 1 OF 6 | DRAWING NUMBER: PSA125-XX-XXXX-X-X-X-X-X | REVISION: 4

Table (unit in)					
·	STROKE	L1	L2	L3	L4
P/N	= STK	= STK + 9.315	= STK + 5.343	= STK/2 + 2.38	= STL/2 - 1.164
PSA125-06-XXXX-X-X-X-X-0	6.00	15.315	11.343	5.38	1.836
PSA125-12-XXXX-X-X-X-X-0	12.00	21.315	17.343	8.38	4.836
PSA125-18-XXXX-X-X-X-X-0	18.00	27.315	23.343	11.38	7.836





DETAIL A
SCALE 2 / 3
SEE PAGE 4
FOR ROD
END OPTIONS

SPEC.	DESCRIPTION

SPECIFICATION NOTES:

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ANGLE +/-2 DEGREES

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PPE	SEE PAGE 1
APPROVED BY:	DATE:
MKK	SEE PAGE 1
SCALE:	UNITS:
1:3	in

SUNSTREAM SCIENTIFIC

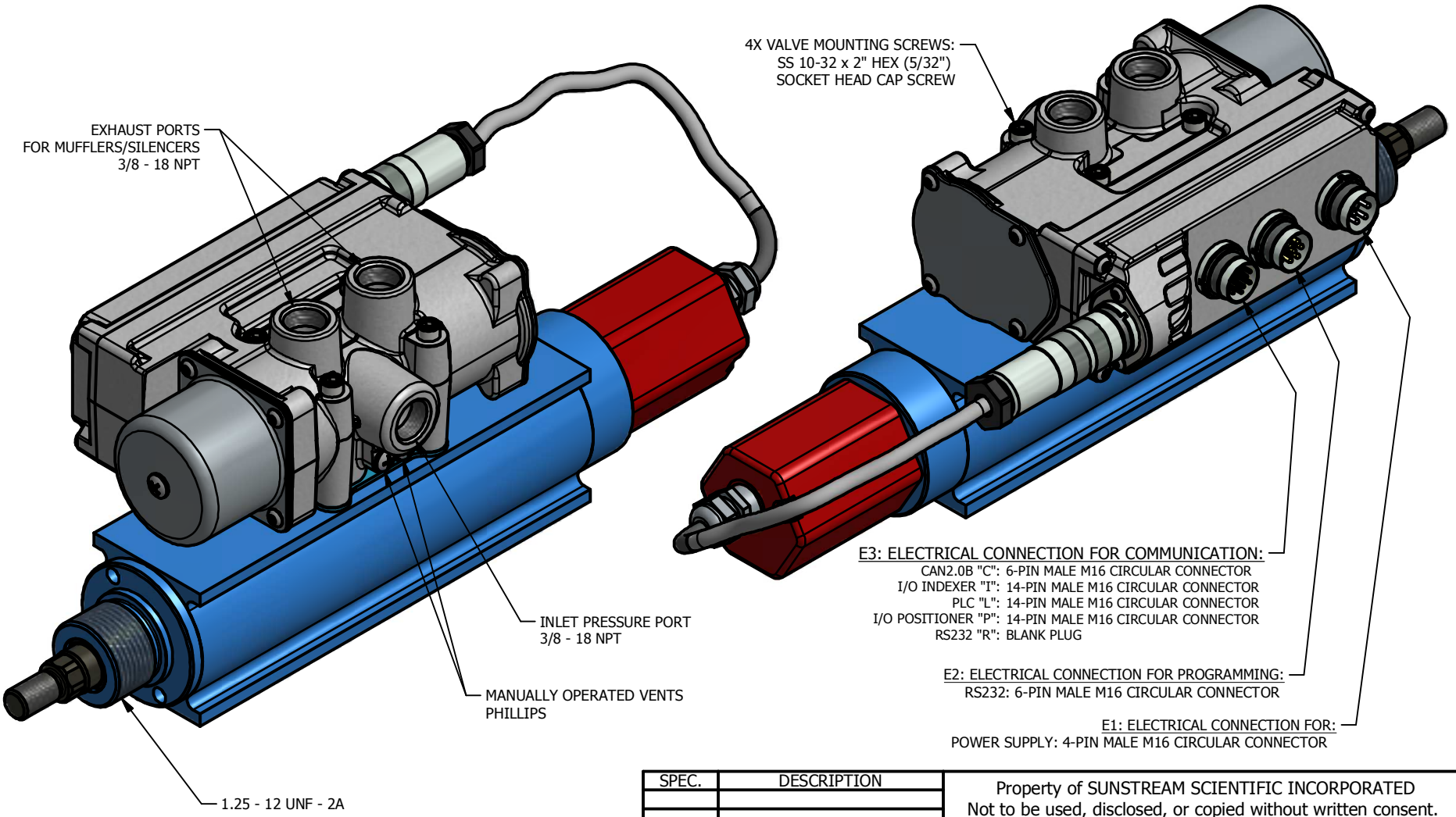
SIZE: A

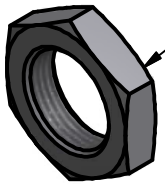
TITLE: 1.25" BORE PSA

SHEET: 2 OF 6

DRAWING NUMBER: PSA125-XX-XXXX-X-X-X-X-0

REVISION: 4





FRONT MOUNTING NUT (125NUT):
1.75" HEX X 7/16 THICK (1.25 - 12 UNF - 2B THREAD, STEEL, BLACK OXIDE)
ORDERED SEPARATELY

SPEC.	DESCRIPTION

SPECIFICATION NOTES:

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ANGLE +/-2 DEGREES

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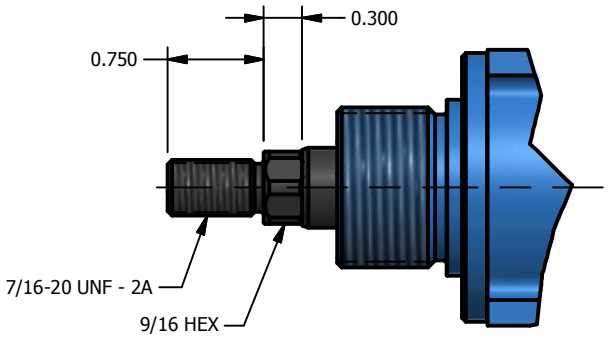
PPE	SEE PAGE 1
APPROVED BY:	DATE:
MKK	SEE PAGE 1
SCALE:	UNITS:
1:2	in

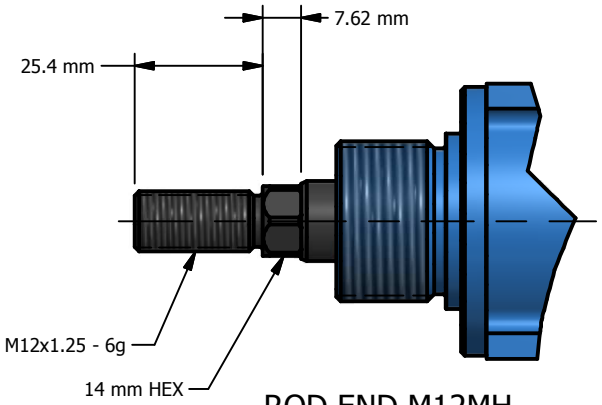
SUNSTREAM SCIENTIFIC

SIZE: A | TITLE: 1.25" BORE PSA

SHEET: 3 OF 6 | DRAWING NUMBER: PSA125-XX-XXXX-X-X-X-X-0 | REVISION: 4



ROD END 07MH
SCALE 2:3

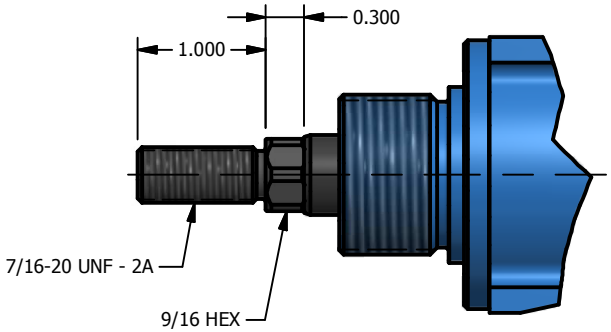


ROD END M12MH
SCALE 2:3

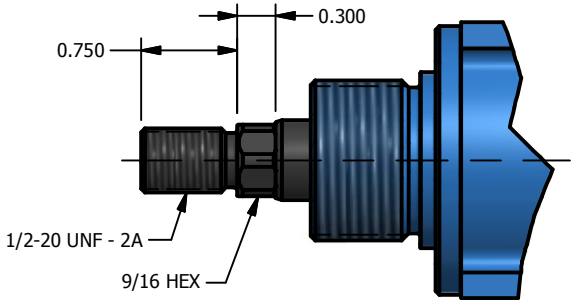
ROD END

PSA 125 - XX - XXXXX - X - X - X - X - X

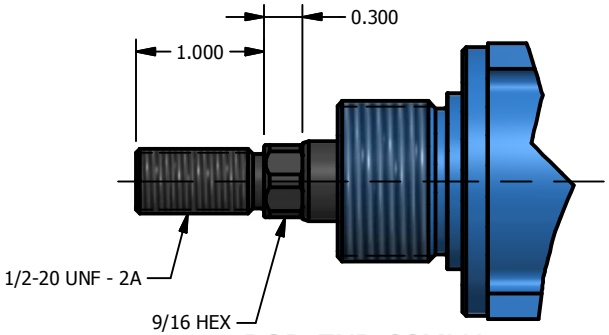
07MH = 7/16-20 X 0.75 Male w/ Hex
M12MH = M12x1.25 X 25.4 mm Male w/ Hex
07MLH = 7/16-20 X 1.00 Male w/ Hex
08M H= 1/2-20 X 0.75 Male w/ Hex
08MLH = 1/2-20 X 1.00 Male w/ Hex



ROD END 07MLH
SCALE 2:3



ROD END 08MH
SCALE 2:3



ROD END 08MLH
SCALE 2:3

SPEC.	DESCRIPTION

SPECIFICATION NOTES:

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THIRD ANGLE PROJECTION

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ANGLE +/-2 DEGREES

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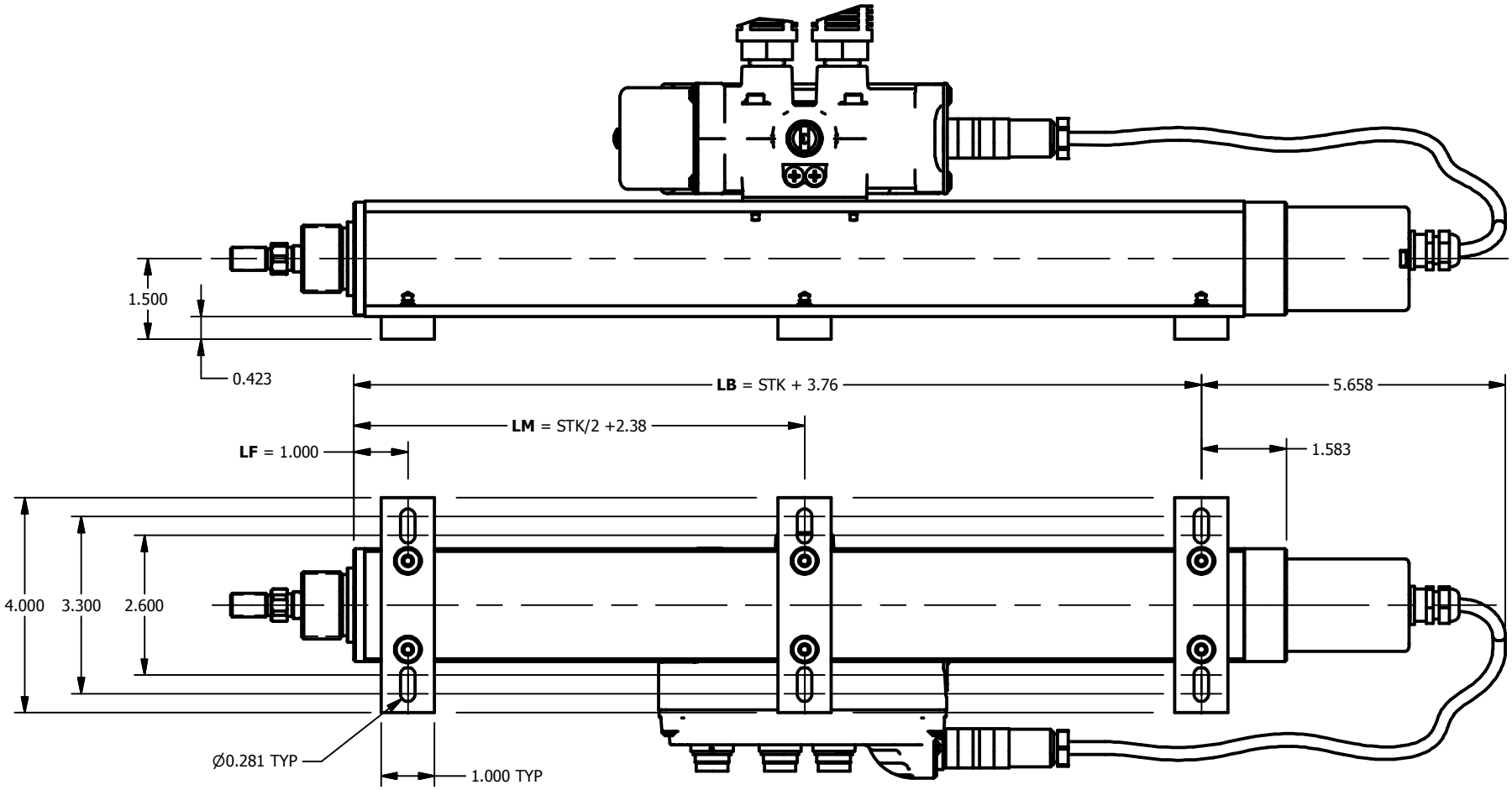
MKK	SEE PAGE 1
SCALE:	UNITS:
2:3	in

SUNSTREAM SCIENTIFIC

SIZE: A | TITLE: 1.25" BORE PSA

SHEET:	DRAWING NUMBER:	REVISION:
4 OF 6	PSA125-XX-XXXX-X-X-X-X-X	4



FOOT MOUNT LOCATIONS				
P/N	STROKE	FRONT	MIDDLE	BACK
	STK	LF	LM	LB
		= 1.0	= STK/2 + 2.38	= STK + 3.76
PSA125-06-XXXX-X-X-X-X-FFM	6.00	1.0	OMIT	9.76
PSA125-12-XXXX-X-X-X-X-FFM	12.00	1.0	8.38	15.76
PSA125-18-XXXX-X-X-X-X-FFM	18.00	1.0	11.38	21.76

NOTES:
1) MIDDLE FOOT MOUNT AVAILABLE UPON REQUEST FOR ACTUATOR STROKES BELOW 10.00 in.
2) CONSULT FACTORY FOR CUSTOM FOOT MOUNT LOCATIONS

SPEC.	DESCRIPTION

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ANGLE +/-2 DEGREES

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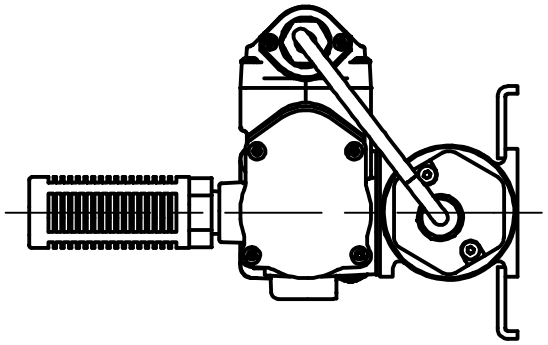
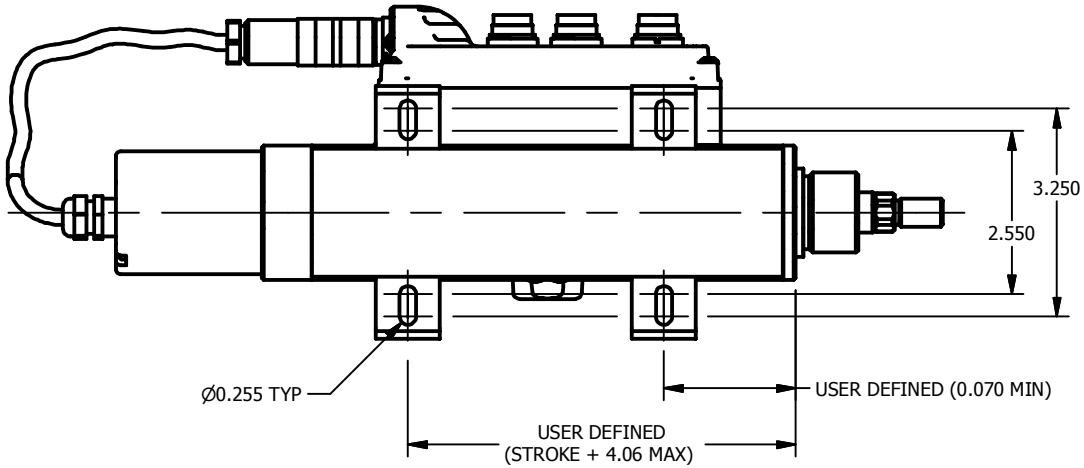
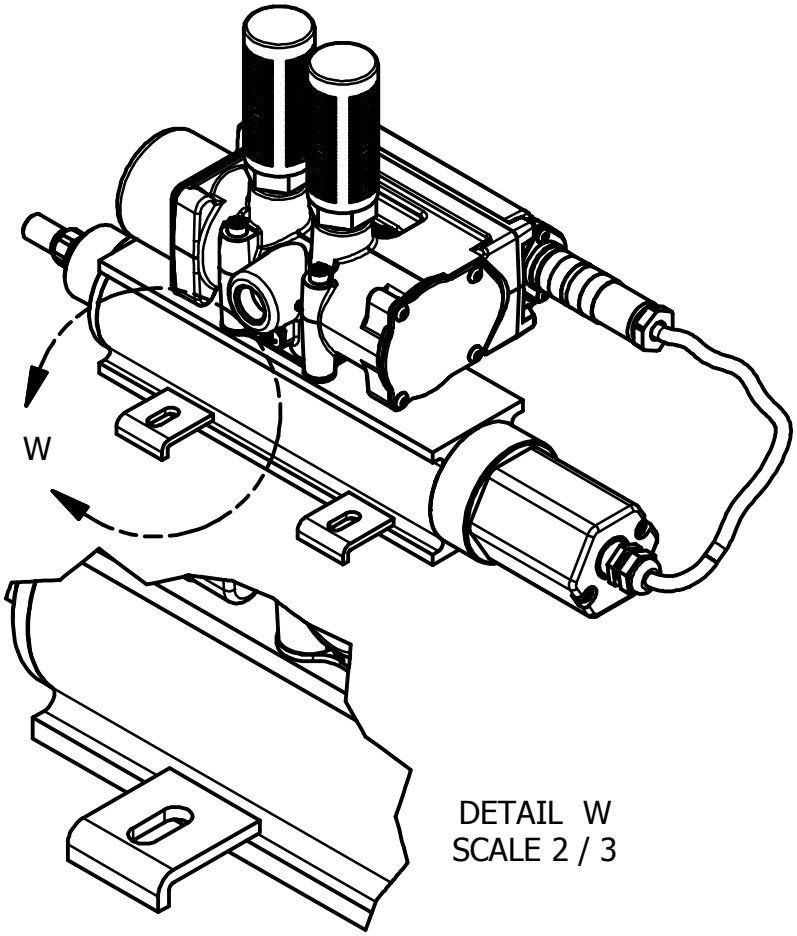
APPROVED BY: MKK	DATE: SEE PAGE 1	
SCALE: 1:3	UNITS: in	
SIZE: A	TITLE: 1.25" BORE PSA	
SHEET: 5 OF 6	DRAWING NUMBER: PSA125-XX-XXXX-X-X-X-X-FFM	REVISION: 4







DETAIL W
SCALE 2 / 3

Adjustable Foot mount (125AF)

NOTE:
1) DEPENDING ON STROKE LENGTH, MULTIPLE CLEATS CAN BE ADDED AT USERS DISCRETION
2) ADJUSTABLE FOOT MOUNTS **ORDERED SEPARATELY**

SPEC.	DESCRIPTION

SPECIFICATION NOTES:

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PPE	SEE PAGE 1
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MKK	SEE PAGE 1
SCALE: 1:3	UNITS: in

SUNSTREAM SCIENTIFIC

SIZE: A | TITLE: 1.25" BORE PSA

SHEET: 6 OF 6 | DRAWING NUMBER: PSA125-XX-XXXX-X-X-X-X-0 (125AF) | REVISION: 4