

O
N
M
L
K
J
I
H
G
F
E
D
C
B
A

SERIES

AMPLIFIED
(5V SPAN)

DESIGNATES PRESSURE

L - LOW PRESSURE (IN H₂O)
- NO DESIGNATION (PSI)

PRESSURE RANGE

004, 010 IN H₂O
00.3 01, 05, 15, 30,
60, 100, 150 PSI

PACKAGE TYPE

N - PLASTIC

PRESSURE REFERENCE

G - GAGE
D - DIFFERENTIAL
A - ABSOLUTE* ≥5 PSIA

XCA

5

N

NOTES

1 ALL PARAMETERS ARE MESURED AT 8.0 VOLT EXCITATION, FOR THE NOMINAL FULL SCALE PRESSURE AND ROOM TEMPERATURE UNLESS OTHERWISE SPECIFIED. PRESSURE MEASUREMENTS ARE WITH POSITIVE PRESSURE APPLIED TO PORT 2 OR VACUUM TO PORT 1. FOR ABSOLUTE DEVICES PRESSURE IS APPLIED TO PORT 1

2 SHIFT IS RELATIVE TO 25°C

3 LINEARITY IS DETERMINED USING BEST STRAIGHT LINE CURVE FIT THROUGH ZERO, 1/2 FULL SCALE, AND FULL SCALE; HYSTERESIS IS MECHANICAL ONLY

4 PROOF PRSSURE SHOULD NOT EXCEED 100 PSI AND BURST PRSSURE SHOULD NOT EXCEED 300 PSI

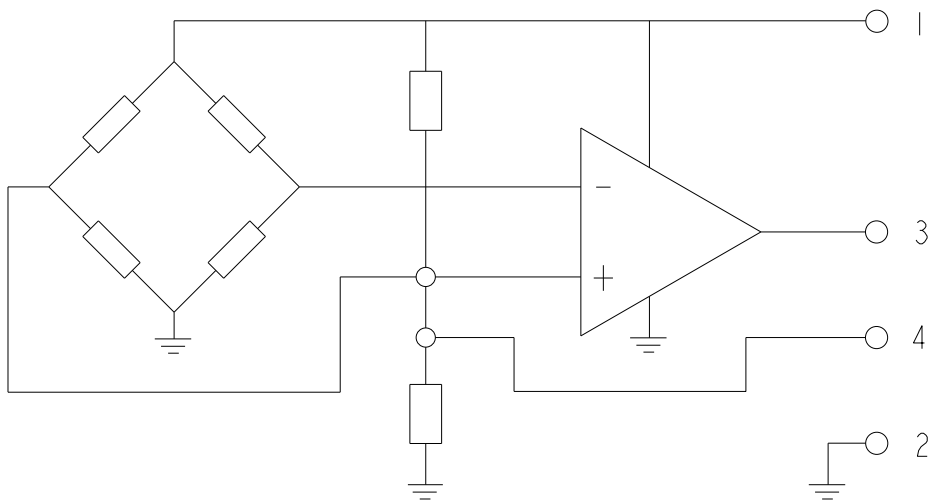
5 HI/LO SPAN IS THE ALGEBRAIC DIFFERENCE OF OFFSET VOLTAGE AND HI OR LO OUTPUTS

6 SPAN IS THE ALGEBRAIC DIFFERENCE OF OUTPUT END POINTS

7 PRESSURE RANGE DEPICTS THE FULL SCALE PRESSURE OF THE SENSOR

8 FS REPRESENTS THE OUTPUT VALUE AT FULL SCALE PRESSURE

SPECIFICATIONS					
PARAMETER		MIN	NOM	MAX	UNITS
DIFFERENTIAL	OFFSET VOLTAGE (OUTPUT AT 0 PSID)	3.450	3.500	3.550	V
	HI SPAN (P ₂ > P ₁)	2.450	2.500	2.550	
	LO SPAN (P ₁ > P ₂)	-2.450	-2.500	-2.550	
	SPAN (HI SPAN - LO SPAN)	---	5.000	---	
GAGE	OFFSET VOLTAGE (OUTPUT AT 0 PSIG)	0.950	1.000	1.050	V
	SPAN (P ₂ > P ₁)	4.900	5.000	5.100	
ABSOLUTE	OFFSET VOLTAGE (OUTPUT AT 0 PSIA)	0.950	1.000	1.050	V
	SPAN (PRESSURE APPLIED TO P1)	4.900	5.000	5.100	
EXCITATION VOLTAGE		3.0	8.0	16.0	V
TC SPAN (0°C-50°C)		---	±0.6	±1.0	%FS
TC OFFSET (0°C-50°C)		---	±0.6	±1.0	%FS
LINEARITY AND HYSTERESIS		---	±0.3	±0.5	%FS
REPEATABILITY		---	±0.1	---	%FS
STORAGE TEMPERATURE RANGE		-40	---	125	°C
PROOF PRESSURE (VERIFIED BY DESIGN)		---	3X	---	FS
BURST PRESSURE (VERIFIED BY DESIGN)		---	5X	---	FS

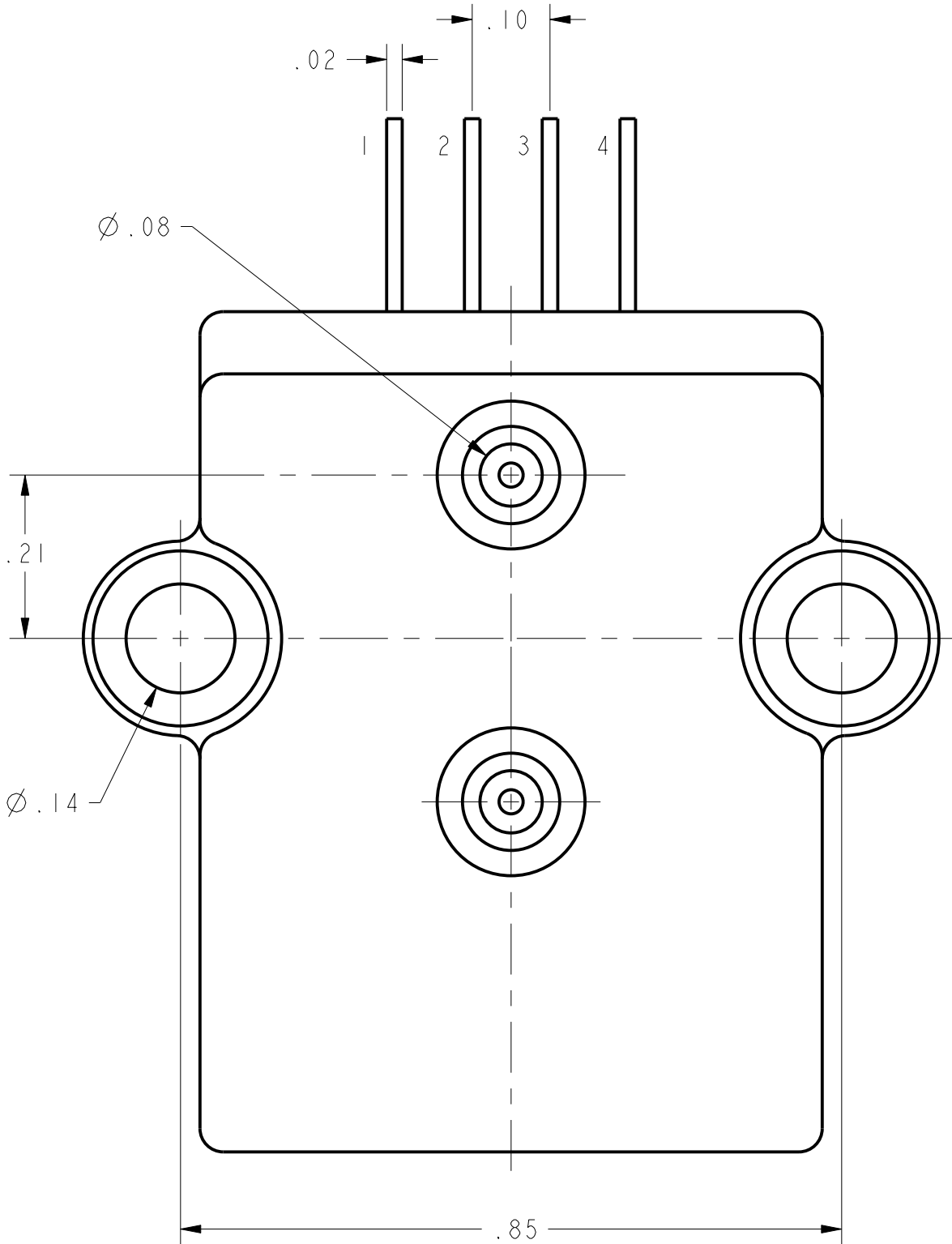
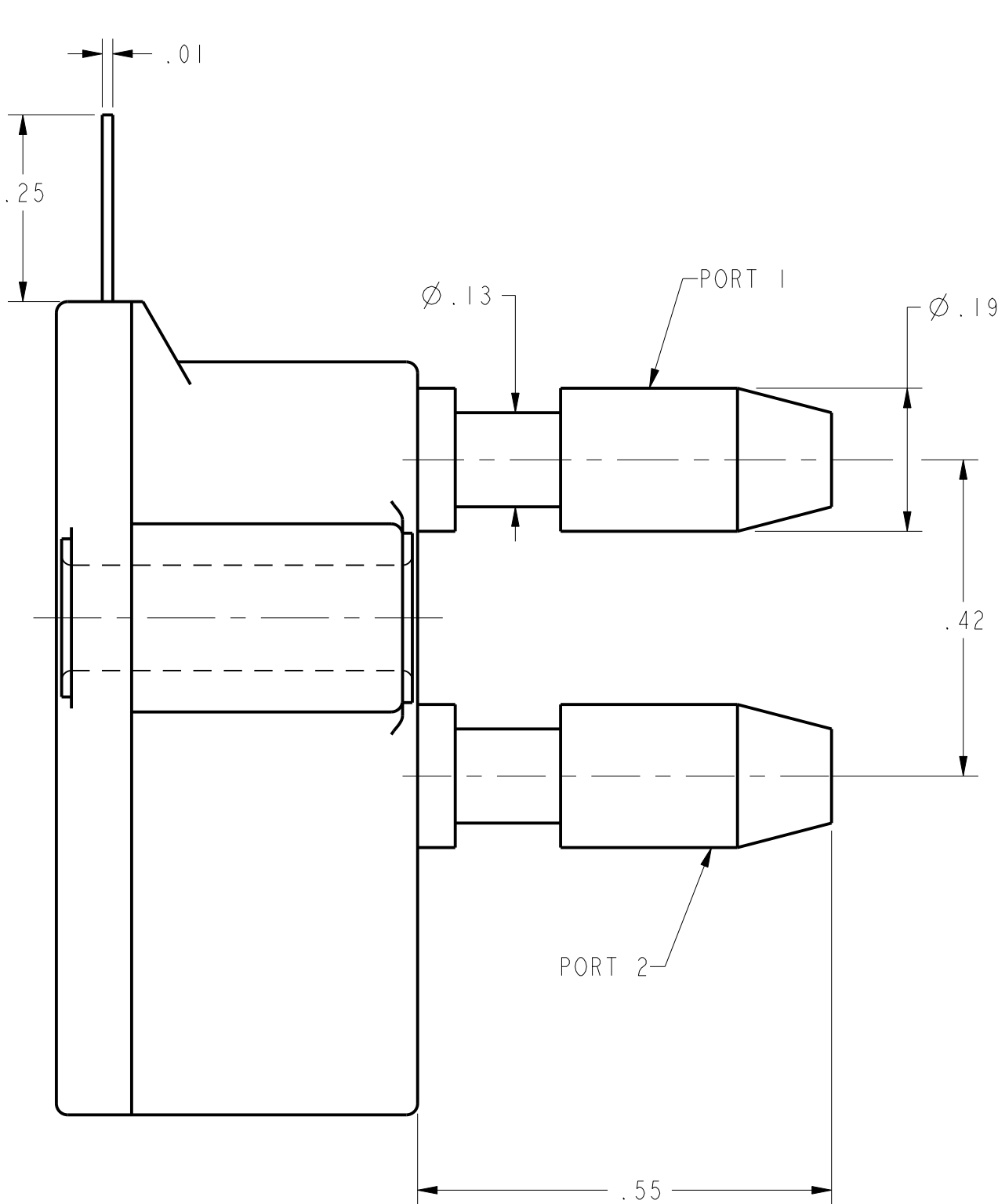
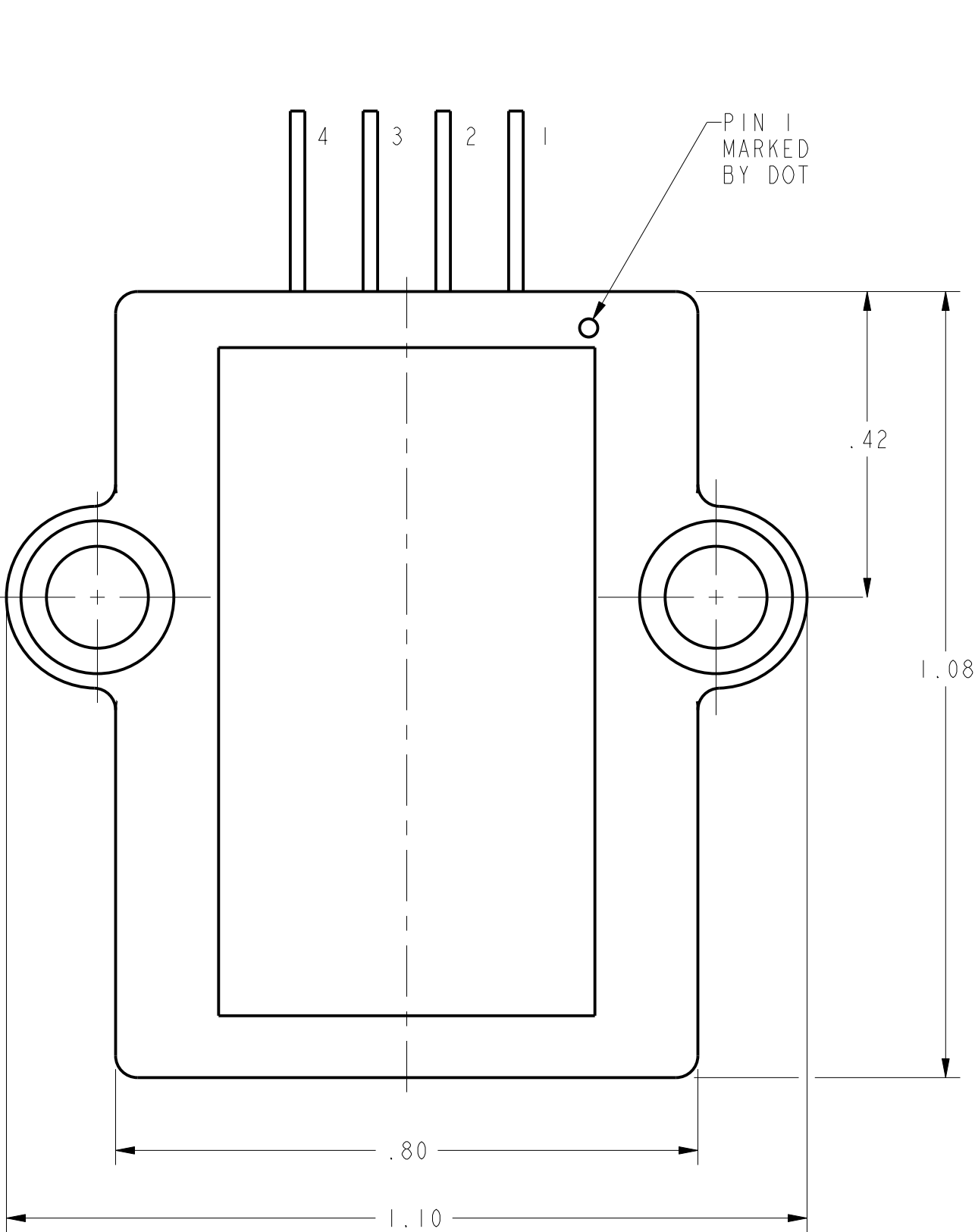


EQUIVALENT CIRCUIT

PIN OUT	
1	V _{EXCITATION}
2	COMMON
3	V _{OUTPUT}
4	V _{OFFSET}

CATALOG LISTINGS
XCA500.3DN
2
XCA501DN
2
XCA505DN
XCA505GN
2
2
XCA515AN
XCA515DN
XCA515GN
XCA530GN
2
2
2
XCA530AN
2
2
XCAL5010DN
XCAL5010GN

MEDIA CAPABILITY, WETTED MATERIALS (APPLY CLEAN DRY AIR ONLY)	
PRESSURE PORT 2 (HIGH)	SILICON DIAPHRAGM, GLASS FILLED NYLON, AND ALUMINA CERAMIC
PRESSURE PORT 1 (LOW)	SILICON DIAPHRAGM, GLASS FILLED NYLON, AND ALUMINA CERAMIC



UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: NO PLACE .X ±.040 ±.1 ONE PLACE .X ±.030 ±.0,4 TWO PLACE .XX ±.015 ±.0,15 THREE PLACE .XXX ±.005 ± ANGLES ± RAW MATERIAL-COMMERCIAL STANDARD	☒ DECIMAL	☐ FRACTIONAL	☐ METRIC	DRAWN	LJK	14AUG02	THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE PERMISSION OF HONEYWELL.	Honeywell			
	THIRD ANGLE PROJECTION			CHECK		SAV					14AUG02
				DIMENSIONS ARE TO BE MET BEFORE PROTECTIVE COATINGS ARE APPLIED							
				SCALE							
				TITLE							
			SIZE			DWG TYPE	DRAWING NAME		REV		
			D			M	XCA5 SERIES CHART 1		2		



PTC	3D	ASME Y14.5M-1994	SCALE	5:1	WEIGHT	SHEET	1	OF	1
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