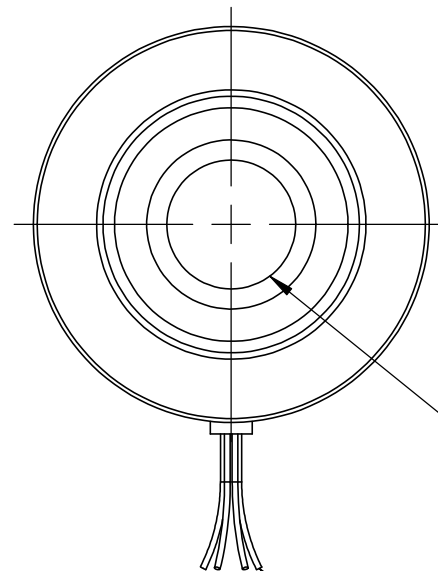
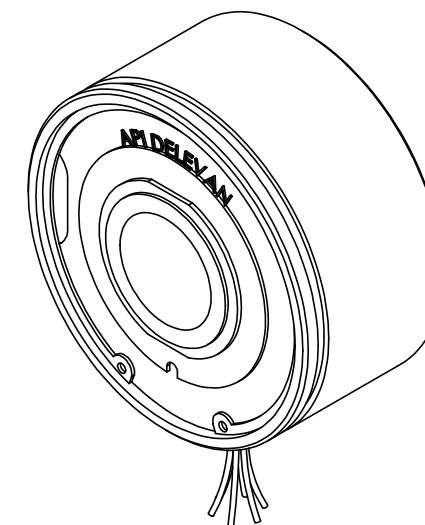


PILOT 700 SHOWN  
SEE SHEET TWO AND THREE  
FOR OTHER OPTIONS



SEE SHEET TWO  
FOR BORE SIZES

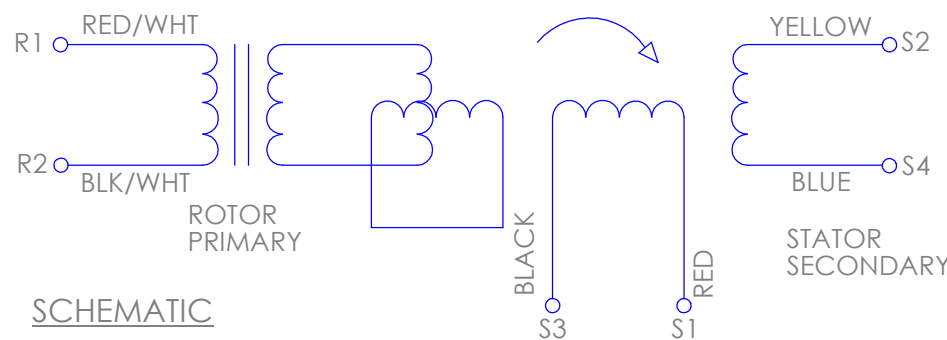
SEE SHEET TWO  
FOR LEAD OPTIONS



NOTES:

1. ROTOR & STATOR ARE A MATCHED PAIR. DO NOT INTERCHANGE ROTOR OR STATOR BETWEEN RESOLVERS.
2. ROTOR AND HOUSING FACE TO BE MOUNTED FLUSH  $\pm .005$  [127].
3. CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM 'A' WITHIN  $.003$  [076] T.I.R.

SHEMATIC



SHEMATIC

PHASING EQUATION

INCREASING ANGLE  
FOR CW ROTATION OF ROTOR  
FACING MOUNTING END.

$$E(S1-S3) = KE(R1-R2) \sin \theta$$

$$E(S2-S4) = -KE(R1-R2) \cos \theta$$

**PART, ASSEMBLY AND ALL COMPONENTS  
MEET EU ROHS DIRECTIVE**

<p>THIRD ANGLE PROJECTION</p>	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [mm] DIAMETERS CONCENTRIC $.003$ [076] TIR FACES PERPENDICULAR $.003$ [076] INSIDE CORNERS R .015 [.381] MAX INTERPRETATION PER ASME Y14.5M-1994		UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS AND BREAK SHARP EDGES $-.005$ [010] [127/.254] TOLERANCES: DECIMAL $.00 \pm .01$ [254] $.000 \pm .005$ [127] ANGLE $\pm 0.5^\circ$ CHAMFER ANGLE $\pm 10^\circ$		<p><b>API Delevan</b></p> <p><b>21BRX</b></p>
	MATERIAL	MACHINE SURFACES $63 \sqrt{\text{ }}$		APPROVALS	
FINISH	-		CHECKED	-	SIZE
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF API DELEVAN. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF HAROWE IS PROHIBITED.		DES ENG		-	B
		SCALE		SHEET 1 OF 3	
				CODE IDENT: 99800	

REVISIONS				
REV	ECO	DESCRIPTION	DATE	CHECKED
-	-	NEW DRAWING		

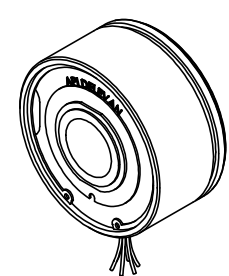
# NUMBERING

## 21BRX-XXX-XXXXX-XXXX

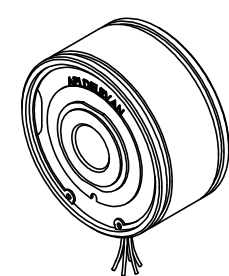
SIZE  
21

STYLE OF RESOLVER:  
FRAMELESS, NEW GEN

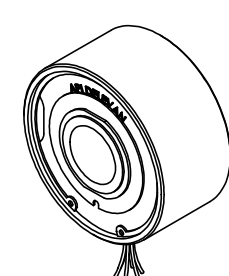
PILOT NUMBER	STYLE	WINDING NUMBER	Vrms	KHz	ma Arms	Tr	SPEED	ACCURACY ±arcmin	BORE LETTER	BORE	"B" DIAMETER	CABLE DESIGNATION	CABLE	LEAD	LENGTH
701	SINGLE GROOVE, Ø1.999[50.77] RADIAL LEADS	003	6	7.5	25	.33	1	12	DP	19mm	Ø.748/.749 [19.00/19.02] 1.057[26.85] AOL	05	26 AWG FLTING LEADS	02	15 [381]
		004	8	8	42	.50	1	18	V	20mm	Ø.7892/.7901 [20.46/20.69] 1.025[26.03] AOL	06	28 AWG 3 TWISTED PAIRS W/DRAIN	03	24[609]
702	DOUBLE GROOVE, Ø2.06[52.32] RADIAL LEADS	005	6	6	28	.31	1	24	AT	1/2	Ø.501/.502[12.72/12.7] 1.025[26.03] AOL	09	24 AWG 3 TWISTED PAIRS	04	60[1524]
		006	4	5	27	.50	1	20	F	16mm	Ø.6300/.6307[16.00/16.02] 1.025[26.03]OL	11	22 AWG 4 TWISTED/SHIELDED PAIRS	05	80[2032]
704	NO GROOVE Ø2.062[52.37] RADIAL LEADS	008	4	4	55	.45	1	20	CM	15mm	Ø.5902/.5913[14.99/15.02] 1.025[26.03] AO;	19	29 AWG SILIFLEX FLYING LEADS	06	120[3048]
		009	7	10	40	.50	1	20							



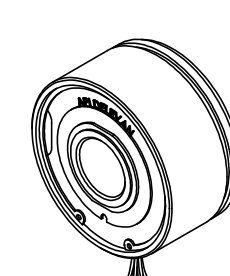
PILOT 701



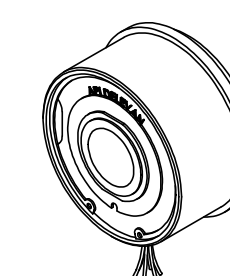
PILOT 702



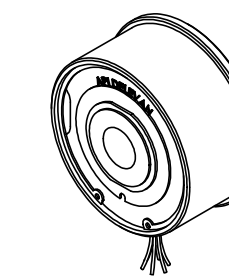
PILOT 704



PILOT 705



PILOT 708



PILOT 709

SEE SHEET 3 FOR DIMENSIONAL DIFFERENCES

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES [mm]  
DIAMETERS CONCENTRIC .003 [.076] TIR  
FACES PERPENDICULAR .003 [.076]  
INSIDE CORNERS R .015 [.381] MAX

INTERPRETATION PER ASME  
Y14.5M-1994

UNLESS OTHERWISE SPECIFIED:  
REMOVE ALL BURRS AND BREAK  
SHARP EDGES -.005/.010

TOLERANCES:  
DECIMAL .00±.01 [.254] .000 ±.005 [.127]  
ANGLE ±0.5°  
CHAMFER ANGLE ±10°

MACHINE SURFACES  $\sqrt{63}$

## API Delevan

# 21BRX

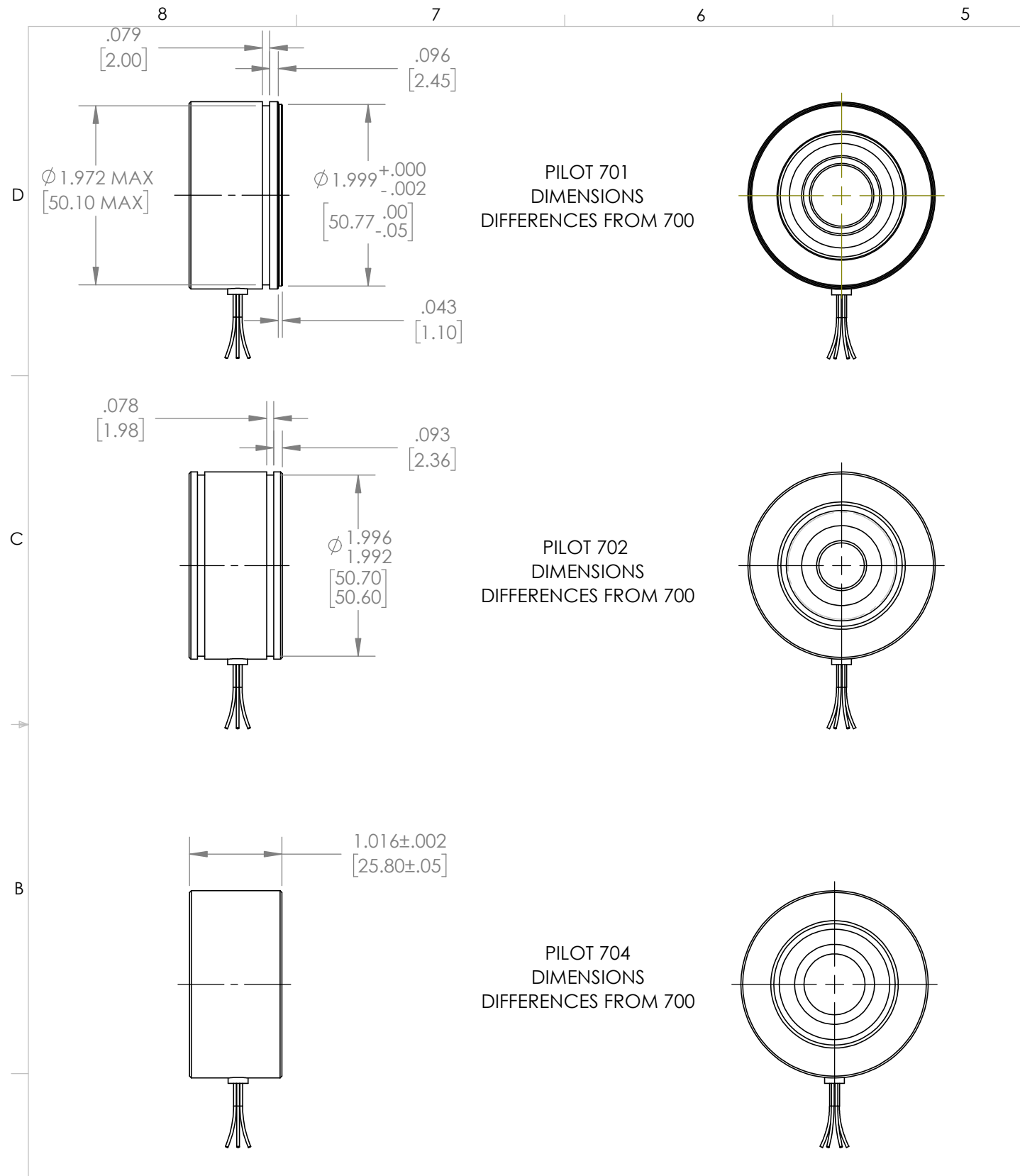
MATERIAL	-	APPROVALS	DATE
FINISH	-	CHECKED	-
		DES ENG	-

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SIZE DWG. NO.  
B

SCALE SHEET 2 OF 3 CODE IDENT: 58655

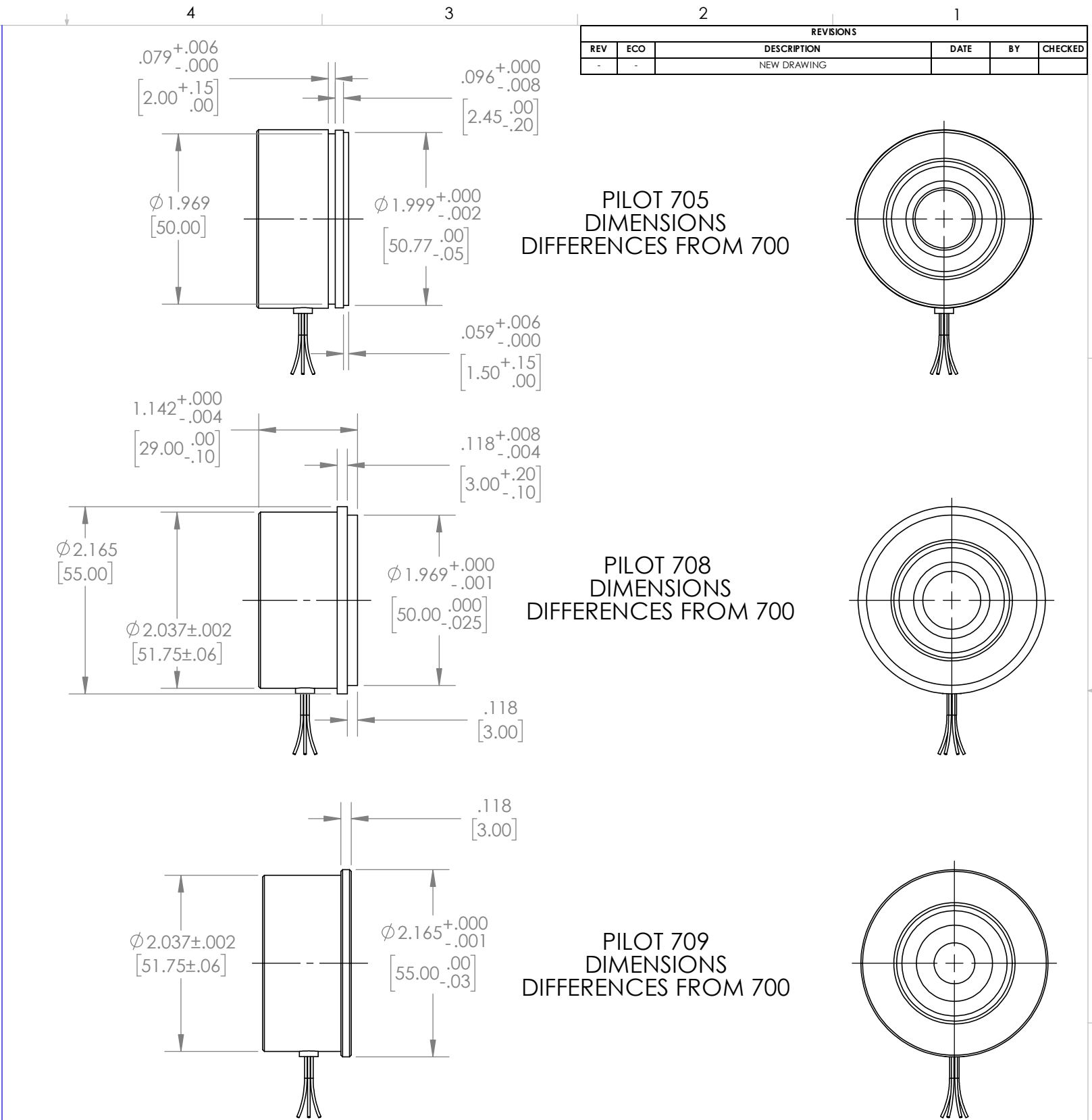
REVISIONS				
REV	ECO	DESCRIPTION	DATE	CHECKED
-	-	NEW DRAWING		



PILOT 701  
DIMENSIONS  
DIFFERENCES FROM 700

PILOT 702  
DIMENSIONS  
DIFFERENCES FROM 700

PILOT 704  
DIMENSIONS  
DIFFERENCES FROM 700



PILOT 705  
DIMENSIONS  
DIFFERENCES FROM 700

PILOT 708  
DIMENSIONS  
DIFFERENCES FROM 700

PILOT 709  
DIMENSIONS  
DIFFERENCES FROM 700

SOME DIMENSIONS MAY CHANGE TO ACCOMODATE CUSTOM CONFIGURATIONS

<p>THIRD ANGLE PROJECTION</p>	<p>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [mm] DIAMETERS CONCENTRIC .003 [.076] TIR FACES PERPENDICULAR .003 [.076] INSIDE CORNERS R .015 [.381] MAX</p> <p>INTERPRETATION PER ASME Y14.5M-1994</p>	<p>UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS AND BREAK SHARP EDGES -.005/.010</p> <p>TOLERANCES: DECIMAL .00 ± .01 [.254] .000 ± .005 [1.27] ANGLE ± 0.5° CHAMFER ANGLE ± 10°</p> <p>MACHINE SURFACES <math>\sqrt{63}</math></p>	<h1>API Delevan</h1> <h2>15BRX</h2>	
	<p>MATERIAL</p> <p>-</p> <p>FINISH</p> <p>-</p>	<p>APPROVALS</p> <p>DRAWN</p> <p>CHECKED</p> <p>DES ENG</p>	<p>DATE</p> <p>-</p> <p>-</p> <p>-</p>	<p>SIZE</p> <p>B</p>

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SHEET 3 OF 3  
CODE IDENT: 58655