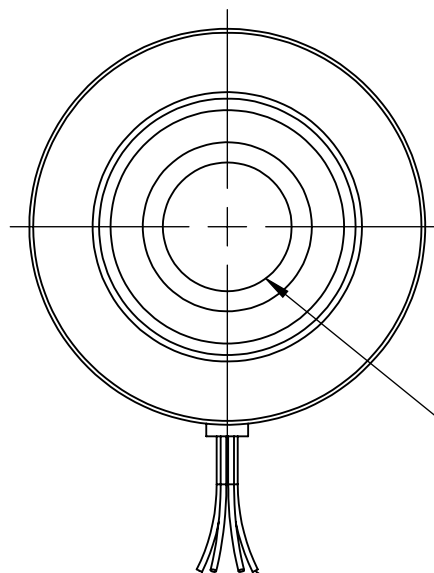


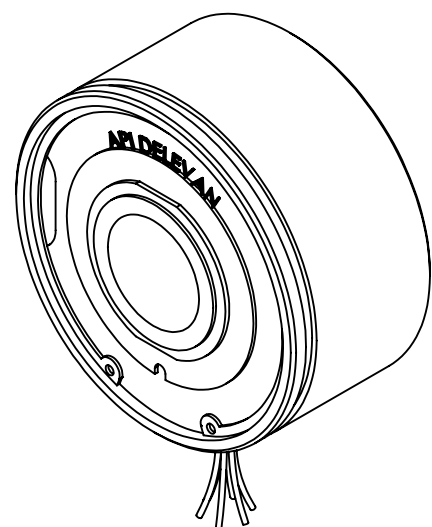
NOTES:

1. ROTOR & STATOR ARE A MATCHED PAIR. DO NOT INTERCHANGE ROTOR OR STATOR BETWEEN RESOLVERS.
2. ROTOR AND HOUSING FACE TO BE MOUNTED FLUSH $\pm .005$ [1.27].
3. CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM 'A' WITHIN $.003$ [0.076] T.I.R.

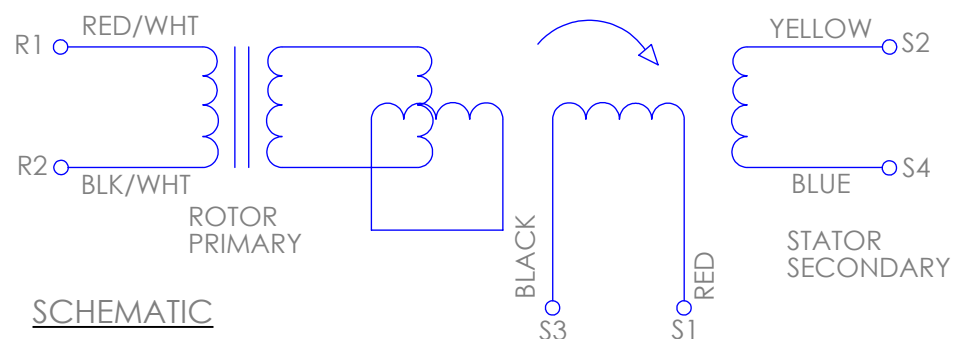
PILOT 700 SHOWN
SEE SHEET TWO AND THREE
FOR OTHER OPTIONS



SEE SHEET TWO
FOR LEAD OPTIONS



SHEMATIC



SHEMATIC

PHASING EQUATION

INCREASING ANGLE
FOR CW ROTATION OF ROTOR
FACING MOUNTING END.

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

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

TECHNICAL INFORMATION		
HIPOT, LEADS TO CASE, 500VAC	Max. mArms	2
HIPOT, INTERPHASE, 250VAC	Max. mArms	2
TEMPERATURE RANGE	°C	-55 TO 155
WEIGHT	g	200
CONTINUOUS SPEED	Max. kRPM	20

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

<p>THIRD ANGLE PROJECTION</p>	<p>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [mm] DIAMETERS CONCENTRIC $.003$ [0.076] TIR FACES PERPENDICULAR $-.003$ [0.076] INSIDE CORNERS R $.015$ [0.381] MAX</p> <p>INTERPRETATION PER ASME Y14.5M-1994</p>	<p>UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS AND BREAK SHARP EDGES $-.005$ / $.010$ [1.27 / .254]</p> <p>TOLERANCES: DECIMAL $.00 \pm .01$ [1.254] $.000 \pm .005$ [1.27] ANGLE $\pm 0.5^\circ$ CHAMFER ANGLE $\pm 10^\circ$</p>	<p>API DELEVAN http://www.delevan.com</p> <p>21BRX</p>
	<p>MATERIAL</p> <p>FINISH</p>	<p>MACHINE SURFACES $63 \sqrt{}$</p> <p>APPROVALS</p> <p>DATE</p> <p>CHECKED</p> <p>DES ENG</p>	

REVISIONS				
REV	ECO	DESCRIPTION	DATE	CHECKED
-	-	NEW DRAWING		

NUMBERING

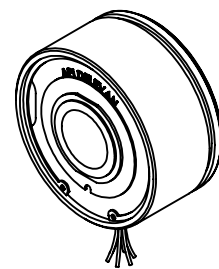
21BRX-XXX-XXXXX-XXXX

PLEASE CONTACT FACTORY FOR OTHER ELECTRICAL AND MECHANICAL OPTIONS.

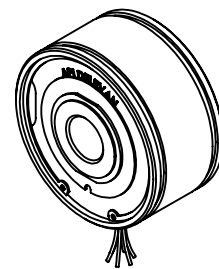
SIZE
21

STYLE OF RESOLVER:
FRAMELESS, NEW GEN

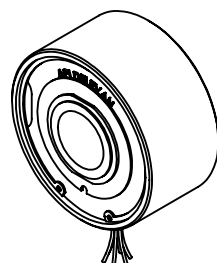
PILOT NUMBER	STYLE	WINDING NUMBER	V _{rms}	KHz	m Ar ms	Tr	SPEED	ACCURACY ±arcmin	BORE LETTER	BORE	"B" DIAMETER	CABLE DESIGNATION	CABLE	LEAD	LENGTH
									L	17mm	.670/.671 [17.02/17.04] 1.49[37.85] AOL	02	28 AWG FLYING LEADS	01	12[305]
700	SINGLE GROOVE, Ø2.06[52.32] 1.02 [25.9] AOL RADIAL LEADS	002	2	10	46	1	1	18 SPREAD	DP	19mm	Ø.748/.749 [19.00/19.02] 1.057[26.85] AOL	05	26 AWG FLTING LEADS	02	15 [381]
		003	6	7.5	25	.33	1	12	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]
		004	8	8	46	.50	1	18 SPREAD	AT	1/2	Ø.501/.502 [12.72/12.7] 1.025[26.03] AOL	11	24 AWG 3 TWISTED PAIRS	04	60[1524]
701	SINGLE GROOVE, Ø1.999[50.77] 1.025 [26.06] AOL RADIAL LEADS	005	6	6	28	.31	1	24 SPREAD	F	16mm	Ø.6300/.6307 [16.00/16.02] 1.025[26.03] AOL	19	22 AWG 4 TWISTED/SHIELDED PAIRS	05	80[2032]
		006	4	5	27	.50	1	20 SPREAD	CM	15mm	Ø.5902/.5913 [14.99/15.02] 1.025[26.03] AOL			06	120[3048]
		008	4	4	55	.45	1	20 SPREAD							
		024	7	10	60	.50	1	20 SPREAD							
702	DOUBLE GROOVE, Ø2.06[52.32] 1.02 [25.9] AOL RADIAL LEADS														
704	NO GROOVE Ø2.062[52.37] 1.015 [25.8] AOL RADIAL LEADS														
705	SINGLE GROOVE Ø1.999[50.77] 1.041 [26.46] AOL RADIAL LEADS														
708	FLANGED Ø1.968[49.99] 1.02 [25.9] AOL RADIAL LEADS														
709	FLANGED Ø2.165[55.0] 1.023 [26.0] AOL RADIAL LEADS														



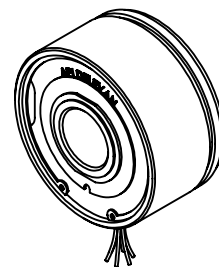
PILOT 701



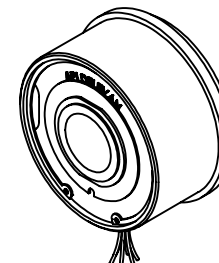
PILOT 702



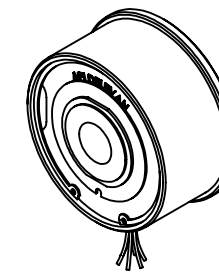
PILOT 704



PILOT 705




PILOT 708



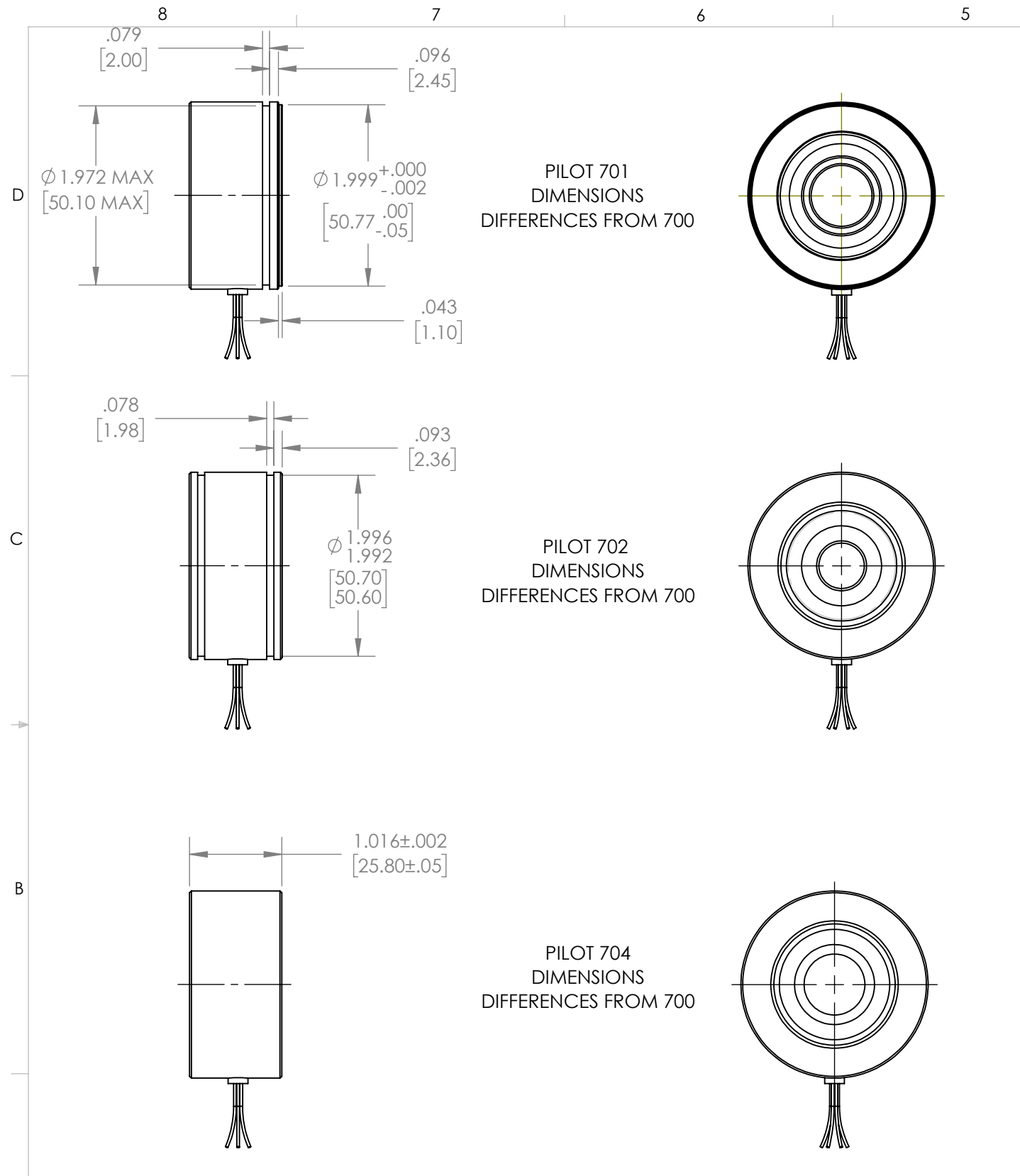
PILOT 709

SEE SHEET 3 FOR DIMENSIONAL DIFFERENCES

 THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES [mm] DIAMETERS CONCENTRIC .003 [0.076] TIR FACES PERPENDICULAR .003 [0.076] INSIDE CORNERS R .015 [0.381] MAX INTERPRETATION PER ASME Y14.5M-1994	UNLESS OTHERWISE SPECIFIED: REMOVE ALL BURRS AND BREAK SHARP EDGES - .005/.010 TOLERANCES: DECIMAL .00 ±.01 [0.254] .000 ±.005 [0.127] ANGLE ±0.5° CHAMFER ANGLE ±10°	<h2 style="color: blue;">API DELEVAN</h2> <p style="color: blue;">http://www.delevan.com</p> <h1 style="font-size: 2em;">21BRX</h1>
MATERIAL - FINISH -	MACHINE SURFACES 63√ APPROVALS DRAWN - CHECKED - DES ENG -	DATE - - -	SIZE DWG. NO. B SCALE SHEET 2 OF 3 C.CODE IDENT: 58655

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF API DELEVAN. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF API DELEVAN IS PROHIBITED.

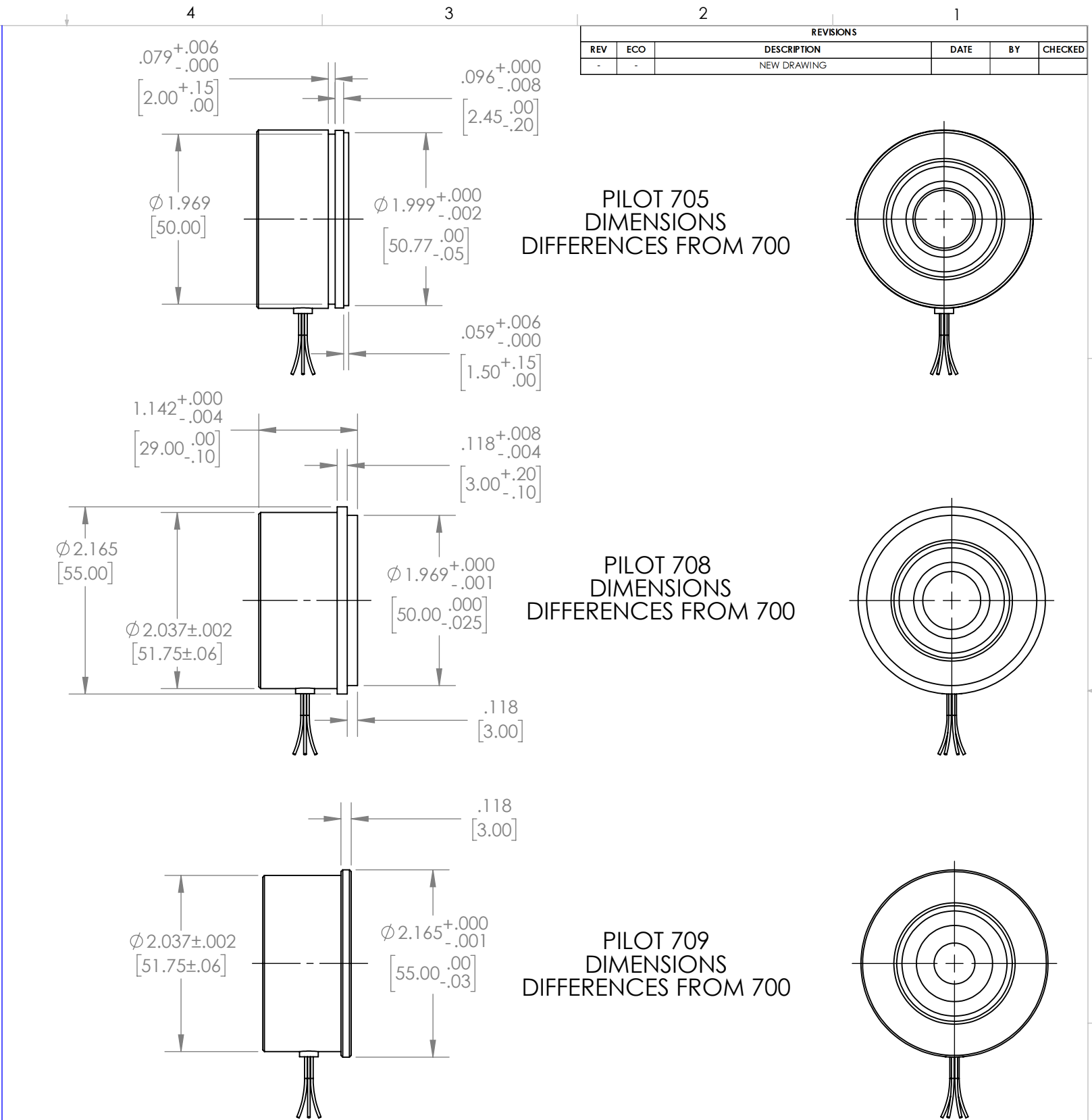
REVISIONS				
REV	ECO	DESCRIPTION	DATE	CHECKED
-	-	NEW DRAWING		



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 [0.076] TIR FACES PERPENDICULAR .003 [0.076] INSIDE CORNERS R .015 [3.81] 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 [127] ANGLE ± 0.5° CHAMFER ANGLE ± 10°</p>	<p>API DELEVAN http://www.delevan.com</p>	
	<p>MATERIAL</p> <p>FINISH</p>	<p>MACHINE SURFACES 63</p> <p>APPROVALS</p> <p>DRAWN</p> <p>CHECKED</p> <p>DES ENG</p>	<p>DATE</p> <p>DATE</p>	<p>15BRX</p>
<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF API DELEVAN. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF API DELEVAN IS PROHIBITED.</p>			<p>SIZE DWG. NO.</p> <p>B</p>	<p>SCALE SHEET 3 OF 3 C.CODE IDENT: 58655</p>