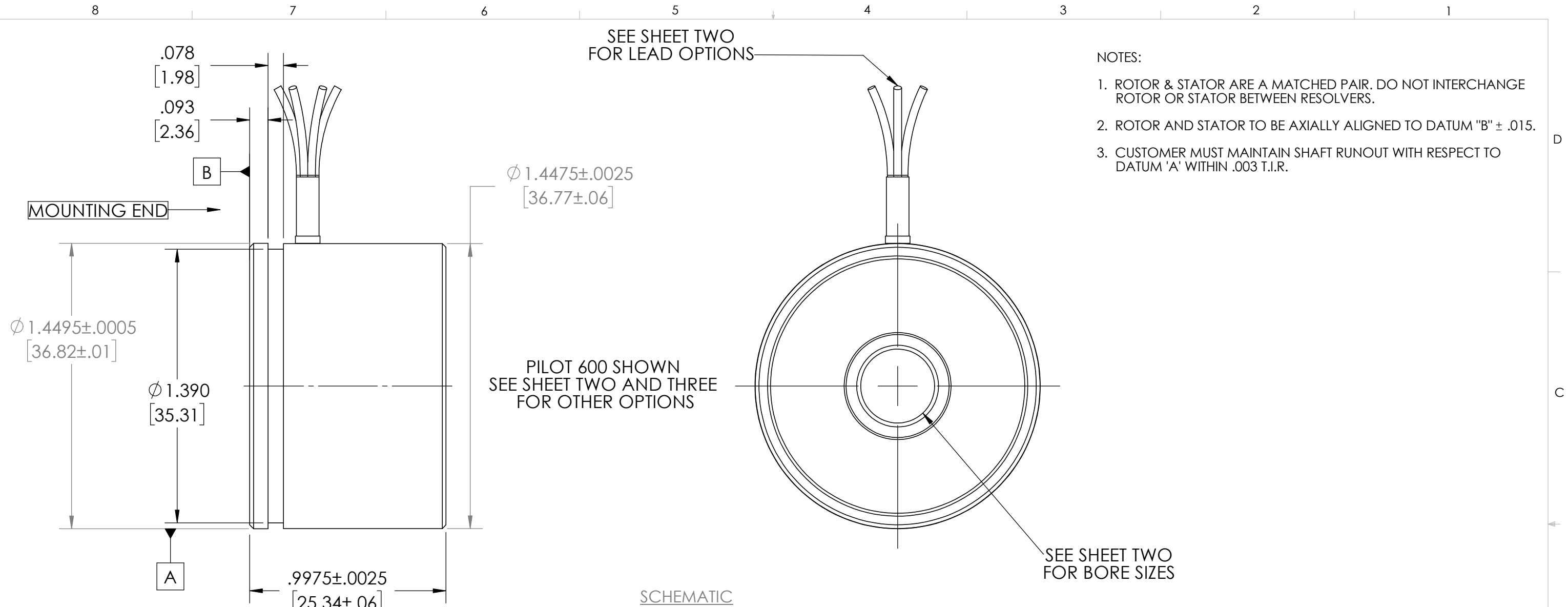


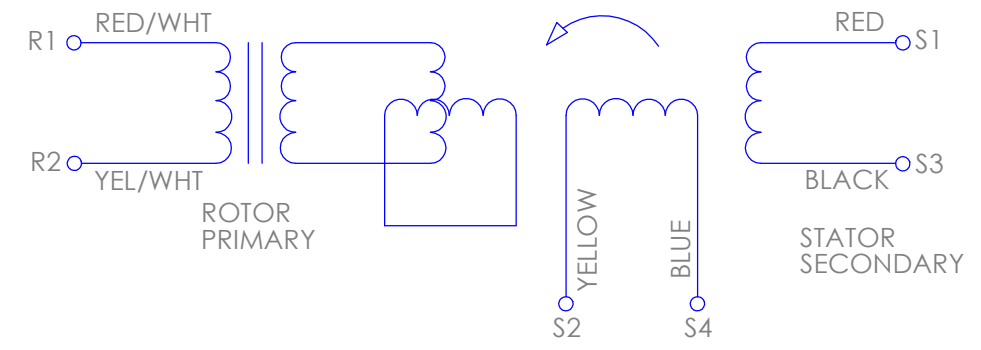
SEE SHEET TWO  
FOR LEAD OPTIONS

NOTES:

1. ROTOR & STATOR ARE A MATCHED PAIR. DO NOT INTERCHANGE ROTOR OR STATOR BETWEEN RESOLVERS.
2. ROTOR AND STATOR TO BE AXIALLY ALIGNED TO DATUM "B" ± .015.
3. CUSTOMER MUST MAINTAIN SHAFT RUNOUT WITH RESPECT TO DATUM 'A' WITHIN .003 T.I.R.



SCHEMATIC



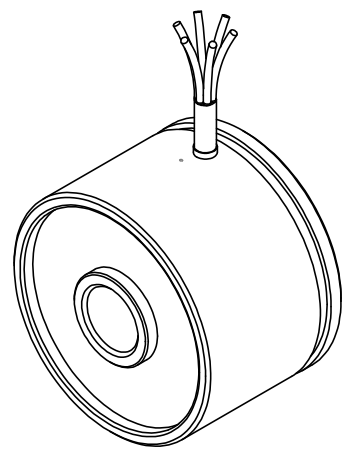
PHASING EQUATION

FOR CCW ROTATION OF ROTOR FACING TRANSFORMER MOUNTING FLANGE END.

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

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

TECHNICAL INFORMATION		
HIPOT, LEADS TO CASE, 500VAC	Max. mAmps	2
HIPOT, INTERPHASE, 250VAC	Max. mAmps	2
TEMPERATURE RANGE	°C	-55 TO 155
WEIGHT, APPROX	oz	3



THIRD ANGLE PROJECTION

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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]	
MATERIAL	-	MACHINE SURFACES	63
FINISH	-	APPROVALS	DATE
		CHECKED	-
		DES ENG	-

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**15BRCX**

SIZE B DWG. NO. \_\_\_\_\_

SCALE \_\_\_\_\_ SHEET 1 OF 3 C.CODE IDENT: 99800

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

REVISIONS					
REV	ECO	DESCRIPTION	DATE	BY	CHECKED
-	-	NEW DRAWING			

# NUMBERING

## 15BRCX-XXX-XXXXX-XXXX

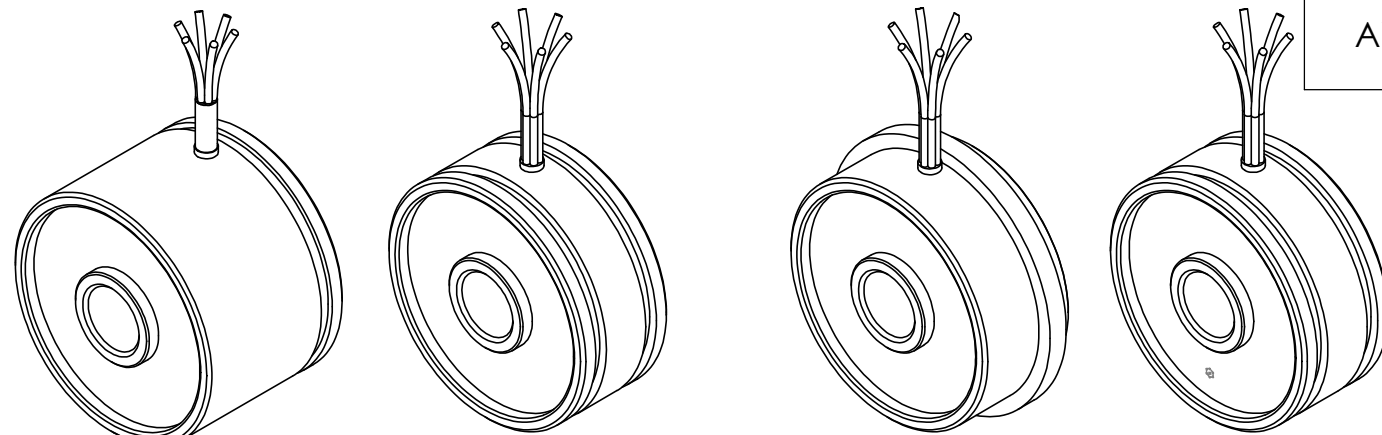
PLEASE CONTACT FACTORY FOR OTHER ELECTRICAL AND MECHANICAL OPTIONS.

SIZE  
15

STYLE OF RESOLVER:  
FRAMELESS

PILOT NUMBER	STYLE	WINDING NUMBER	Vrms	KHz	ma Arms	Tr	SPEED	ACCURACY ±arcmin	BORE LETTER	BORE	DIAMETER	CABLE DESIGNATION	CABLE	LEAD	LENGTH
600	SERVO GROOVE ALUMINUM, 1.0 [26.40], Ø1.449 [36.80]	001	10	4.5	58	.50	1	10	D	3/8	.375/.376 [9.53/9.55] 1.0 [25.4] AOL	02	28 AWG FLYING LEADS	01	12 [305]
		035	7	8	50	.50	1	10	K	3/8	.375/.376 [9.53/9.55] .635 [16.13] AOL	05	26 AWG FLYING LEADS	02	16 [406]
		002	7	10	40	.50	1	20 SPREAD	Q	1/4	.2500/.2510 [6.35/6.375] .625-1.0 [25.4] AOL	06	28 AWG 3 TWISTED PAIRS W/DRAIN	03	24 [609]
602	SERVO GROOVE ALUMINUM, .635 [16.13], Ø1.449 [36.80]	004	4	10	16	.474	2	20 SPREAD	S	7/16	.4370/.4380 {11.10} 1.53 [38.86] AOL	07	24 AWG FLYING LEADS W/SHIELDING	04	60 [1524]
		006	4	5	23	.5	1	15	W	8mm	.3149/.3157 [7.99/8.02], .635 [16.13] AOL	08	28AWG FLYING LEADS HIGH TEMP	05	80 [2032]
		007	2	6	45	1	1	7	AC	10 mm	.3937/.3945 [10.0/10.02] .635 [16.13] AOL	09	24 AWG 3 TWISTED PAIRS	06	120 [3048]
009	4.25	7	55	.47	1	7	AM	3/8	.375/.376 [9.53/9.55] W/KEYWAY .635 [16.13] AOL	11	22 AWG 4 TWISTED PAIRS W/SHIELDING				
603	FLANGE ALUMINUM, .635 [16.13] Ø1.417 [36.0]	010	7	10	32	.5	1	16 SPREAD	AX	12 mm	.4724/.4735 [11.99/12.02] .635 [16.13] AOL	12	24 AWG FLYING LEADS		
		011	4.25	10	35	.47	3	8	AU	SPCL	SPECIAL, SEE DRAWING	19	29 AWG SILIFLEX FLYING LEADS		
604	SERVO GROOVE STEEL, .629 [16.0], Ø1.449 [36.80]	014	3.5	10	65	1	1	16 SPREAD	AY	1/4	.2500/.2510 [6.35/6.375] W/KEYWAY .635 [16.13] AOL	20	RADIATION HARDEN 26 AWG FLYING LEADS		
		018	7	8	45	.5	4	8 SPREAD							

SEE SHEET 3 FOR DIMENSIONAL DIFFERENCES



PILOT 600

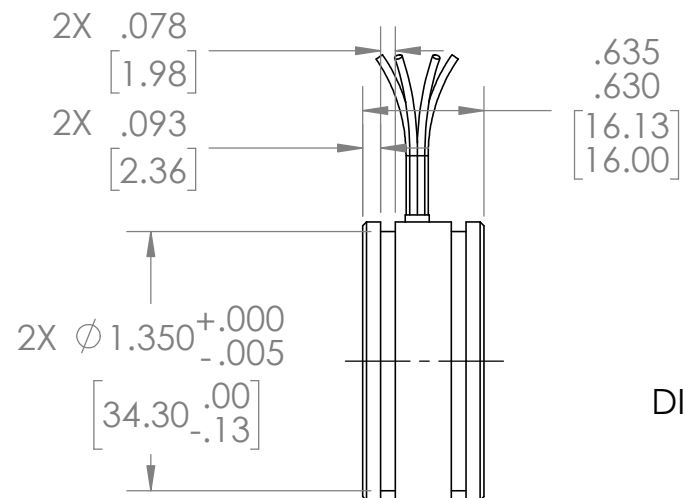
PILOT 602

PILOT 603

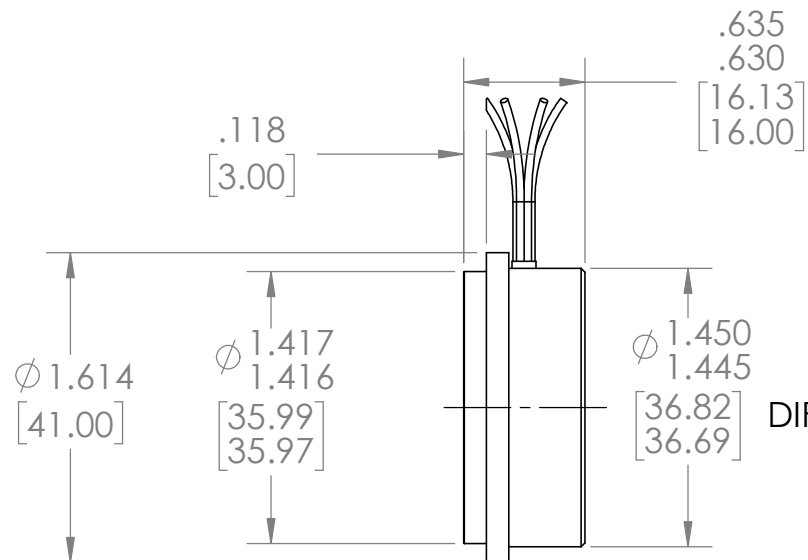
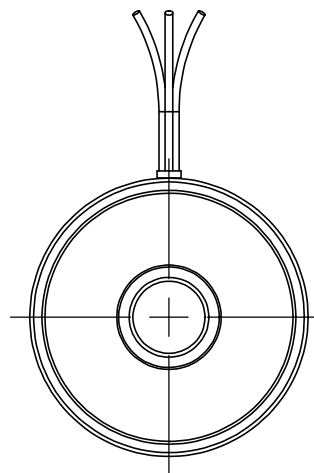
PILOT 604

<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 -.005/0.010</p> <p>TOLERANCES: DECIMAL .00±0.01 [254], .000 ±.005 [127] ANGLE ±0.5° CHAMFER ANGLE ±10°</p> <p>MACHINE SURFACES 63</p>	<p><b>API DELEVAN</b> <a href="http://www.delevan.com">http://www.delevan.com</a></p>	
			<p><b>15BRCX</b></p>	
<p>MATERIAL</p> <p>FINISH</p>	<p>APPROVALS</p> <p>CHECKED</p> <p>DES ENG</p>	<p>DATE</p> <p></p>	<p>SCALE</p>	<p>DWG. NO.</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>SHEET 2 OF 3</p>	<p>CODE IDENT: 58655</p>

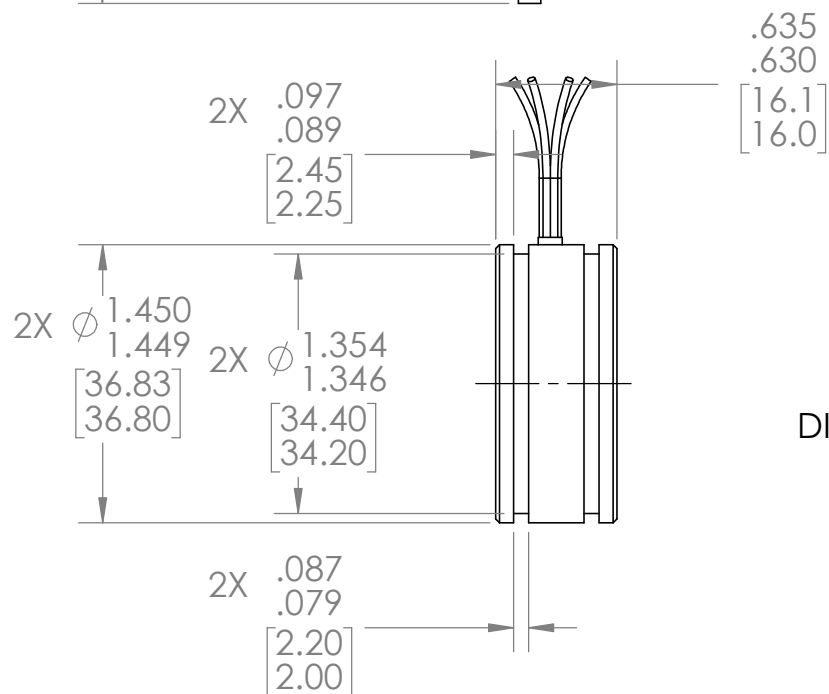
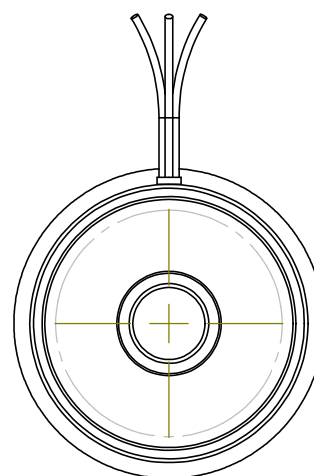
REVISIONS				
REV	ECO	DESCRIPTION	DATE	CHECKED
-	-	NEW DRAWING		



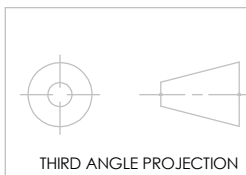
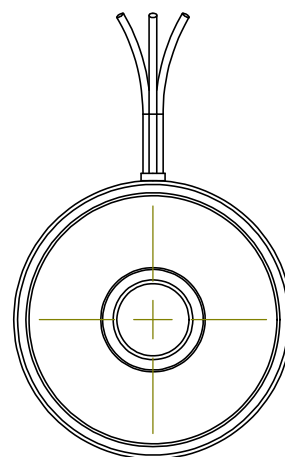
PILOT 602  
 DIMENSIONS  
 DIFFERENCES FROM 600



PILOT 603  
 DIMENSIONS  
 DIFFERENCES FROM 600



PILOT 604  
 DIMENSIONS  
 DIFFERENCES FROM 600



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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

MATERIAL -  
 FINISH -

UNLESS OTHERWISE SPECIFIED:  
 REMOVE ALL BURRS AND BREAK SHARP EDGES -.005/.010  
 TOLERANCES:  
 DECIMAL .00±0.01 [.254] .000 ±.005 [.127]  
 ANGLE ±0.5°  
 CHAMFER ANGLE ±10°  
 MACHINE SURFACES 63

APPROVALS  
 DRAWN -  
 CHECKED -  
 DES ENG -

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SIZE B DWG. NO.  
 SCALE SHEET 3 OF 3 CODE IDENT: 58655