

### TEST SPECIFICATION

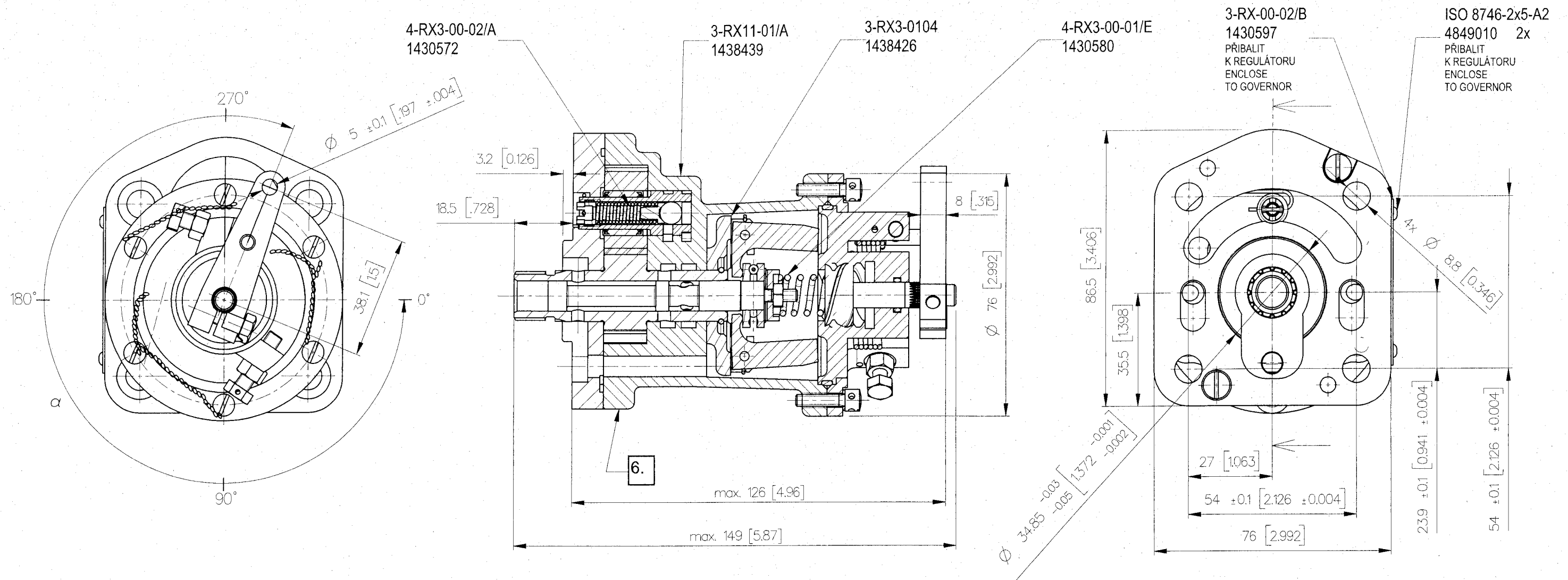
Type: single acting, pressure to DECREASE pitch only.				
Governor drive rotation: CCW facing governor base, CW facing engine pad.				
Governor mounts HORIZONTAL on engine.				
Adjust governor according to specification stated in items 1. to 9. with:				
Lube oil pressure $p_o$	340±30	kPa	50±5	PSI
Fluid temperature $t_o$	60±5	°C	140±9	°F
1. Relief valve pressure $p_r$ at governor $n_R = 1750 \pm 10$ RPM	2.14-2.2E	MPa	320±10	PSI
2. Max. governor RPM $n_{max}$	2340±10	min <sup>-1</sup>	2340±10	
3. Hysteresis at RPM $\Delta n_R$	30 max.	min <sup>-1</sup>	30 max.	
4. Control arm angular travel $\Delta \alpha_{max}$	95±5	°	95±5	°
5. Min. governor RPM $n_{min}$ or less	1400	min <sup>-1</sup>	1400	
6. Control arm angular travel $\Delta \alpha$ at $n_R = 1670$ RPM	65±10	°	65±10	°
7. Pump capacity $Q_o$ at $n_R = 1750$ RPM	6.5 min.	l.min <sup>-1</sup>	6.8 min.	qts./min
8. Max. internal leakage $Q$ at $n_R = 1750$ RPM (new governor)	475 max.	ml.min <sup>-1</sup>	30 max.	qts./hr.
9. Control arm position at max. RPM setting $\alpha$	315±6.5	°	315±6.5	°

### INSTALLATION INFORMATION

Engine type: Lycoming IO-360-A1D
Max. engine RPM: 2700
Reduction ratio: 0.866 times crankshaft RPM
Propeller type:
Aircraft:

10. USE P/N 1439530 OVERHAUL KIT TO OVERHAUL GOVERNOR
9. USE OPERATION AND MAINTENANCE MANUAL No. P-ROV-537/01 TO OVERHAUL GOVERNOR
8. STAMP AT THE NAMEPLATE S/N AND MODEL DESIGNATION: P-940-010/A
7. TORQUE CONTROL LEVER CLAMP SREW AT 4.6-5.0 Nm (40.7-44.3 inlbs.)
6. TORQUE SIX COVER ROTATIONAL RETENTION SREWS AT 16-18 Nm (14.2-15.9 inlbs.)
5. TORQUE HIGH AND LOW SPEED SREW JAM NUTS AT 2.8-3.2 Nm (24.8-28.3 inlbs.)
4. ADJUST GOVERNOR PER TEST SPECIFICATION No. P-ROV-536/01
3. APPLY TORQUE 11-15 Nm (97-133 inlbs.) AT FOUR NUTS WHEN MOUNTING GOVERNOR ON ENGINE PAD
2. USE GASKET MS914401 WHEN MOUNTING GOVERNOR ON ENGINE PAD
1. AND 20010 DRIVE REQUIRED, GOVERNOR MOUNTS HORIZONTAL ON ENGINE

				DRAWING COPY No:	PART NUMBER:
					1439071
INDEX	CHANGE	DATE	SIGNATURE		
MATERIAL:				WEIGHT KG:	SCALE:
				1.0	NONE
DESIGNED BY: <i>Toms</i>		APPROVED BY:			
CHECKED BY:		24.10.03		UNLESS OTHERWISE SPECIFIED, ALL DRAWING LINEAR DIMENSIONS ARE IN mm	
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DRAWING NAME:				3-RX11-00/A9010	
PROPELLER GOVERNOR					
P-940-010/A				SHEET 1 of 1.	



# SEŘÍZENÍ REGULÁTORU TEST SPECIFICATION

TYP: JEDNOČINNÝ, SE VZRŮSTAJÍCÍM TLAKEM SNIŽUJE ÚHEL NÁBĚHU LISTŮ. TYPE: SINGLE ACTING, PRESSURE TO DECREASE PITCH ONLY.					
SMYSL OTÁČENÍ HRÍDELE REGULÁTORU: CCW VE SMĚRU POHLEDU NA PŘÍRUBU REGULÁTORU. GOVERNOR DRIVE ROTATION: CCW FACING GOVERNOR BASE.					
REGULÁTOR JE NA MOTORU INSTALOVÁN HORIZONTÁLNĚ. GOVERNOR MOUNTS HORIZONTAL ON ENGINE.					
SEŘÍDTE NA PARAMETRY PODLE BODŮ 1. AŽ 9. PŘI PODMÍNKÁCH: ADJUST GOVERNOR ACCORDING TO SPECIFICATION STATED IN ITEMS 1. TO 9. WITH:					
TLAK NA VTUPU DO REGULÁTORU ps LUBE OIL PRESSURE ps	340±30	kPa	50±5	PSI	
TEPLOTA PRACOVNÍ KAPALINY ts FLUID TEMPERATURE ts	60±5	°C	140±9	°F	
1. TLAK REDUKČNÍHO VENTILU pm PŘI n <sub>R</sub> RELIEF VALVE PRESSURE pm AT GOVERNOR n <sub>R</sub>	1750±10 min <sup>-1</sup> 2,14-2,28	MPa	320±10	PSI	
2. MAXIMÁLNÍ OTÁČKY n <sub>Rmax</sub> MAX. GOVERNOR RPM	2415±10	min <sup>-1</sup>			
3. HYSTEREZE Δn <sub>R</sub> HYSTERESIS AT RPM Δn <sub>R</sub>	30 MAX.	min <sup>-1</sup>			
4. ÚHEL ROZSAHU PÁKY Δα <sub>max</sub> CONTROL ARM ANGULAR TRAVEL Δα <sub>max</sub>	75±5	°			
5. MINIMÁLNÍ OTÁČKY n <sub>Rmin</sub> MAXIMÁLNĚ MIN. GOVERNOR RPM n <sub>Rmin</sub> OR LESS	NEMĚŘÍ SE NOT APPLICABLE				
6. ROZSAH PÁKY Δα PŘI n <sub>R</sub> CONTROL ARM ANGULAR TRAVEL Δα	1200 min <sup>-1</sup> 60±7	°			
7. PRŮTOK NA VÝSTUPU QČ PŘI n <sub>R</sub> PUMP CAPACITY QČ AT	1750 min <sup>-1</sup> 4,33 min.	l.min <sup>-1</sup>	5 min.	qts./min.	
8. NOVÝ REGULÁTOR, MAX. VNITŘNÍ ÚNIKY PŘI n <sub>R</sub> NEW GOVERNOR MAX. INTERNAL LEAKAGE Q AT n <sub>R</sub>	n <sub>R</sub> = 1750 min <sup>-1</sup> 475 max.	ml.min <sup>-1</sup>	30 max.	qts./hr.	
9. POLOHA PÁKY α PŘI n <sub>Rmax</sub> CONTROL ARM POSITION AT MAX. RPM SETTING α	117±2	°			

6. PLOCHA PRO VYZNAČENÍ JSV ČÍSLO MODELU A VÝROBNÍ ČÍSLO, PROVEĎTE PODLE SMĚRNICE QL 11202/05, METODOU 4.1 NEBO 4.10, VELIKOST 3mm. PŘÍKLAD VYZNAČENÍ: 1439176 104001.  
FACE FOR APPLICATION OF JSV PART AND SERIAL NUMBERS, PERFORM PER QL 11202/05, DIRECTIVE 4.1 OR 4.10, SIZE 3mm, MARKING EXAMPLE : 1439176 104001.
5. UTAHOVACÍ MOMENT ZAJIŠŤOVACÍHO ŠROUBU PÁKY OVLÁDÁNÍ JE 4,6-5 Nm (40,7-44,3 in. lbs.).  
TORQUE CONTROL LEVER CLAMP SCREW AT 4,6-5 Nm (40,7-44,3 in. lbs.)
4. UTAHOVACÍ MOMENT 6-TI ŠROUBU OVLÁDACÍ HLAVY JE 1,6-1,8 Nm (14,2-15,9 in. lbs.).  
TORQUE SIX COVER ROTATIONAL RETENTION SCREW AT 1,6-1,8 Nm (14,2-15,9 in. lbs.)
3. UTAHOVACÍ MOMENT KONTRA Matic DORAZOVÝCH ŠROUBŮ PÁKY OVLÁDÁNÍ JE 2,8-3,2 Nm (24,8-28,3 in. lbs.).  
TORQUE HIGH AND LOW SPEED SCREW AND/OR JAM NUTS AT 2,8-3,2 Nm (24,8-28,3 in. lbs.)
2. SEŘÍZENÍ REGULÁTORU PROVEĎTE PODLE PŘEDPISU P-ROV-536/01.  
ADJUST GOVERNOR PER TEST SPECIFICATION P-ROV-536/01.
1. PRO MONTÁŽ A OPRAVY POSTUPOUJTE PODLE PŘÍRUČKY P-ROV-537/01.  
USE OPERATION AND MAINTENANCE MANUAL P-ROV-537/01.

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INDEX		CHANGE		DATE		SIGNATURE		DRAWING COPY NO. 1		PART NUMBER	
(1)-0x		ROV-Z-411/ISSUE		6.12.2010		FIALOVA				1439176	
MATERIAL SEMI-PRODUCT		WEIGHT KG		SCALE						N	
DESIGNED BY TOMS		SPECIAL PROCESSES		NOTE		Ref:ATB210988					
CHECKED BY		APPROVED BY ING. RYNEŠ		PREVIOUS DRAW No.		23.11.05 "-"		DRAW No.			
TECHNOLOGST		APPROVAL DATE		6.12.2010		UNLESS OTHERWISE SPECIFIED, ALL DRAWING LINEAR DIMENSIONS ARE IN mm					
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DRAWING NAME: REGULÁTOR VRTULE P-540-045/A PROPELLER GOVERNOR								Draw No.		3-RX11-00/A5045	
								SHEETS: 1		SHEET: 1.	