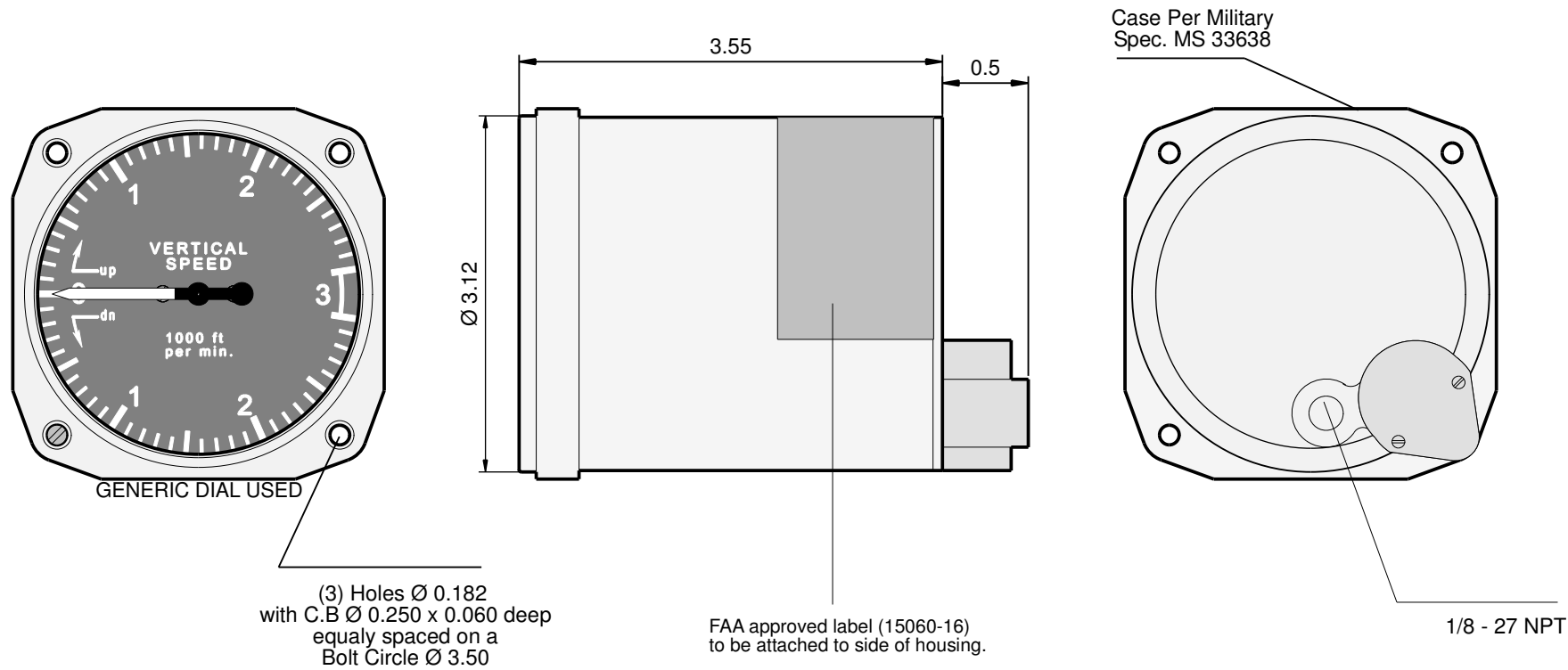


MATERIAL:



Specification Drawing

						TOLERANCES EXCEPT AS NOTED	UMA Inc, 260 Main St. Dayton, VA 22821		
							SCALE 1 : 1.5	DATE: 02/02/2010	SHEET 1 of 2
							SUPPLIER COMPLETE ☐	DRAW BY ShM	
							DESCRIPTION 3 1/8" TSO'd VERTICAL SPEED INDICATOR		
2025011	C	Corrected weight from 8.8 to 11.6	BM	04/04/2025	ShM	.XX ± 0.03	APP		
2023021	B	Added FAA label	BM	05/18/23	CRL	.XXX ± 0.01			
ECO2021001	A	Added correct # of brackets.	ShM	08/16/21	ND	ANGULAR	PART# T8-31[][][][]		REV C
ECO	REV	DESCRIPTION	DR	DATE	APP				

Part# T8-31[]-[] [] [] []		File: specT8-31[]-[] [] [] [] revC.xls		UMA Inc., 260 Main Street, Dayton VA 22821		Sheet: 2 of 2																																																																									
Description: 3 1/8" TSO Vertical Speed Indicator																																																																															
<u>SPECIFICATIONS</u> Meets: TSO C-8e specifications Instrument Type: Direct reading, self-contained, pressure actuated vertical velocity instrument with manual zeroing. Tolerances:<table><tr><td>Rate Ft/Min.</td><td>Scale Error</td></tr><tr><td>500</td><td>100 ft/min.</td></tr><tr><td>1000</td><td>200 ft/min.</td></tr><tr><td>2000</td><td>300 ft/min.</td></tr><tr><td>3000</td><td>300 ft/min.</td></tr><tr><td>4000</td><td>400 ft/min.</td></tr><tr><td>5000</td><td>500 ft/min.</td></tr></table> Friction Error: The difference of any two readings before and after vibration shall not exceed 100 ft/min. Case Leak test: Apply 10 InHg of pressure to static port. Leak shall not exceed 0.05 InHg in one minute. Weight: 11.6 oz. Notice: This gauge is designed to function under normal operating conditions. If pressures exceed maximum readings as indicated on the gauge, it may result in permanent damage to the instrument. This type of damage is not covered by UMA Inc's warranty. RANGES <table><tr><th>Part#</th><th>Range</th><th>Dial Markings</th></tr><tr><td>T8-310-20</td><td>0-2000 FT/Min</td><td>B&W / Vertical Speed</td></tr><tr><td>T8-310-20J</td><td>0-2000 FT/Min</td><td>White Dial, Black Lettering, Reverse Pointer</td></tr><tr><td>T8-310-23</td><td>0-2000 FT/Min</td><td>B&W / Rate of Change</td></tr><tr><td>T8-310-24</td><td>0-2000 FT/Min</td><td>B&W / Cabin Climb</td></tr><tr><td>T8-310-30</td><td>0-3000 FT/Min</td><td>B&W / Vertical Speed</td></tr><tr><td>T8-310-30A</td><td>0-3000 FT/Min</td><td>B&W W/ Waco Logo</td></tr><tr><td>T8-310-33</td><td>0-3000 FT/Min</td><td>B&W / Rate of Change</td></tr><tr><td>T8-310-34</td><td>0-3000 FT/Min</td><td>B&W / Cabin Climb</td></tr><tr><td>T8-310-40</td><td>0-4000 FT/Min</td><td>B&W / Vertical Speed</td></tr><tr><td>T8-310-40A</td><td>0-4000 FT/Min</td><td>B&W W/ Waco Logo</td></tr><tr><td>T8-310-43</td><td>0-4000 FT/Min</td><td>B&W / Rate of Change</td></tr><tr><td>T8-310-44</td><td>0-4000 FT/Min</td><td>B&W / Cabin Climb</td></tr><tr><td>T8-310-60</td><td>0-6000 FT/Min</td><td>B&W / Vertical Speed</td></tr><tr><td>T8-310-63</td><td>0-6000 FT/Min</td><td>B&W / Rate of Change</td></tr><tr><td>T8-310-64</td><td>0-6000 FT/Min</td><td>B&W / Cabin Climb</td></tr><tr><td>T8-311-10</td><td>0-10 Mtr/Sec</td><td>B&W</td></tr><tr><td>T8-31[]-[] [] [] W</td><td>any above</td><td>"W" suffix for optional internal lighting</td></tr></table> <tr><td colspan="6"></td><td colspan="2">Revision C</td></tr>				Rate Ft/Min.	Scale Error	500	100 ft/min.	1000	200 ft/min.	2000	300 ft/min.	3000	300 ft/min.	4000	400 ft/min.	5000	500 ft/min.	Part#	Range	Dial Markings	T8-310-20	0-2000 FT/Min	B&W / Vertical Speed	T8-310-20J	0-2000 FT/Min	White Dial, Black Lettering, Reverse Pointer	T8-310-23	0-2000 FT/Min	B&W / Rate of Change	T8-310-24	0-2000 FT/Min	B&W / Cabin Climb	T8-310-30	0-3000 FT/Min	B&W / Vertical Speed	T8-310-30A	0-3000 FT/Min	B&W W/ Waco Logo	T8-310-33	0-3000 FT/Min	B&W / Rate of Change	T8-310-34	0-3000 FT/Min	B&W / Cabin Climb	T8-310-40	0-4000 FT/Min	B&W / Vertical Speed	T8-310-40A	0-4000 FT/Min	B&W W/ Waco Logo	T8-310-43	0-4000 FT/Min	B&W / Rate of Change	T8-310-44	0-4000 FT/Min	B&W / Cabin Climb	T8-310-60	0-6000 FT/Min	B&W / Vertical Speed	T8-310-63	0-6000 FT/Min	B&W / Rate of Change	T8-310-64	0-6000 FT/Min	B&W / Cabin Climb	T8-311-10	0-10 Mtr/Sec	B&W	T8-31[]-[] [] [] W	any above	"W" suffix for optional internal lighting							Revision C	
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