

**CLASS TYPES AND RATING FORMULAE**

Class Type	Description of Type and Examples	Rating System, Symbol and Formulae <sup>1</sup>
<b>KEELBOAT CLASSES</b>		
I	Possibly more wetted surface and/or equivalent power/displacement ratio relative to Thistle COLUMBIA 21, DRAGON, LUDERS 21, SOLING, STAR	<u>Derived Rating (DR)</u> $(D - PN) = A + [B(DR)]$
II	Possibly more wetted surface and/or lower power/displacement ratio relative to Thistle INTERNATIONAL 110, LUDERS 16, RHODES 19	$(DR) = 0.991(LWL)\sqrt{\frac{SA}{\sqrt[3]{D}}}$
III	Possibly similar wetted surface and/or similar power/displacement ratio relative to Thistle SIMILAR TO TYPE III OFFSHORE CLASSES	
IV	Light displacement hulls capable of surfing or planing TEMPEST	
V	Centerboard versions of keelboats RHODES 19 (CB VER.), COLUMBIA 21 (CB VER.)	
<b>OFFSHORE CLASSES</b>		
I	Power/displacement ratio $(\sqrt{SA} / \sqrt[3]{D})$ less than 1.000 and length overall greater than 28.0 feet CAL 30, COLUMBIA 50, ERICSON 29, MORGAN 30	<u>Derived Rating (DR)</u> $(D - PN) = A + [B(DR)]$
II	Power/displacement ratio $(\sqrt{SA} / \sqrt[3]{D})$ less than 1.070 CAL 29, ELECTRA, ERICSON 25, TYPHOON	$(DR) = 0.991(LWL)\sqrt{\frac{SA}{\sqrt[3]{D}}}$
III	Power/displacement ratio $(\sqrt{SA} / \sqrt[3]{D})$ greater than 1.070 but less than 1.200 BALBOA 26, C&C 35, SANTANA 21	<u>International Offshore Rule Mk Rating (IOR)</u> $(D - PN) = A + [B(IOR)]$
IV	Power/displacement ratio $(\sqrt{SA} / \sqrt[3]{D})$ less than 1.000 and length overall less than 28.0 feet	<u>Midget Ocean Racing Conference Rating (MORC)</u>
V	Ultra light displacement boats (ULDB)	$(D - PN) = A + [B(MORC)]$
		<u>Performance Handicap Racing Fleet Rating (PHRF)</u> $(DPN) = \frac{PHRF}{6} + 55$